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Wisenet SSM Console Client User Manual

VER 2.10

WISENET

About the User Manual

This document contains the instructions for the operator of the **Wisenet SSM Console Client** program. Please read this User Manual before using the product to ensure correct usage.

- This manual explains how to use the product based on the default values and the default screens.
- The information in this manual may vary, depending on the product's software update and our policies, and is subject to change without notice to the user.

About Target Readers

This manual contains information for the operator using **Wisenet SSM Console Client** (hereinafter, **SSM Console Client**) program.

- For details on how to install and set this product, please refer to the separate Administrator Manual.
- You can download the Administrator Manual from Hanwha Techwin's product homepage (http://www.hanwha-security.com).

About Product Usage

Users of this product can perform the following operations:

- Monitoring the network devices registered at **Wisenet SSM Core Server** (hereinafter, **SSM Core Server**) in real time;
- Searching or playing the videos saved in the server and network storage devices;
- Monitoring the real-time events that occurred in the network devices or searching the event logs.

Before using this product, please make sure that the product is the latest software version. You can visit Hanwha Techwin's product homepage (http://www.hanwha-security.com) to check and download the latest software version.

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Learn about Screen Configuration

When you run the **SSM Console Client** program, it displays the monitoring screen. You can use the monitoring screen to perform various functions.



NOTE

- If you exit the program and resume it, you will see the last menu opened before exiting the program.
- You can change the startup option for the program using the path below: SSM Console Client > Setup > General > Startup option

Learn about Screen

SSM Console Client screens are configured as follows:



NOTE

SSM Console Client screens may vary in configuration, depending on the menu tab you select.



No.	Screen Configuration	Detailed Description on Functions
0	Menu tab bar	You can see all the menu tabs that are currently open.
0	Function buttons	You can control the camera videos and audio, and split the video screens. • The configuration may vary depending on the menu tab you select.
0	Tree tab	You can see the tree for camera, alarm output, layout, and bookmark. You can also control the videos of PTZ Cameras.
4	Video window	You can monitor the videos being recorded by the camera in real time. You can also search or play the videos saved in the server and network storage devices.
6	Timeline	You can see a timeline of recorded videos while the program is in Playback mode.
6	Real-time events	You can see the real-time events that have occurred on your device. The configuration may vary depending on the menu tab you select.
0	Add-ons	You can use the add-ons the program provides.

Learn about Menu Tab Bar

Menu Overview

NOTE

O

The SSM Console Client program consists of menu tabs.

- You can freely move among the menu tabs to select the desired menu item.
- You can separate a page from the menu tab and run it like a separate program.
- You can insert a new page into the menu tab.

Monitoring	You can monitor a live camera feed and an event video in real time. You can also search or play the videos saved in the server and network storage devices.	
Search	You can search and play the event logs that occurred on your devices. Also, by connecting to an AI camera, you can play videos or search for images in various conditions such as people, face, vehicle, vehicle number.	
Advanced search	You can search the thumbnails created at the moment when a motion detection event occurred in the recorded video. You can also search for people passing through virtual lines set on the recorded video, or search for people who are intruding into or loitering within a specific area.	
Audit log search	You can search audit logs from your device.	
ANPR	By linking with ANPR camera, you can monitor videos in real time, and search or play any videos as you like. Also, you can register/delete vehicles, edit the registered vehicle information, and check the management history per vehicle. • ANPR menu is available for use after registering your ANPR license.	
POS	You can monitor the data and the camera video of the POS device connected to the NVR in real time. You can also search for the saved POS data or play the video of the camera.	
Dashboard	You can monitor the status of SSM Core Server system or the registered device.	
Configuration	You can configure and manage the SSM Core Server system.	

Open a Menu Page

L

To open a menu page, click + at the top left corner of the program, and select the desired menu in the **Add tab** dialog box.



Close a Menu Page

To close a menu page, click 🔀 that appears when you hover the mouse cursor over the menu tab.



Separate a Menu Page

Drag and drop the menu tab to separate a menu page.





NOTE

- You can freely move and insert the separated menu pages between different menus.
- The separated menu pages can be used as if they were separate programs.

Learn about Function Buttons



Т

D	You can capture videos of the selected tiles.
Ē	You can print videos of the selected tiles.
ä	You can remove all alarm displays of the monitored video tiles.
	You can change the screen split of the video window.Image: Clicking the screen split of the video window.Clicking the screen split of the video window.Image: Click the screen split of the video window.Click the screen split of the video window.Image: Click the screen split of the video window.
	You can remove all of the monitored video tiles.
	You can view the video window in full screen on the monitor.
	You can open or close the Virtual Matrix menu.
	You can set whether or not to enable event spot.
토	You can show or hide the OSD information on the video.
L.	You can check the video output information.
1	You can listen to the audio received from the camera or adjust the audio volume.
<u></u>	You can audio-stream by playing the audio source set by the operator.

Ŷ

You can speak into the microphone on the camera of the selected tile. However, "Speak into the microphone" is only available for cameras that support microphones.

You can speak using the microphone to all cameras (max 16 cameras).

Learn about Tree Tab

Camera You can see the list of cameras registered in SSM.	
Alarm output	You can see the list of alarm output, or control the alarm output.
Layout	You can see the list of layouts available in SSM, or create user layout.
PTZ	You can control the videos of PTZ Cameras.
Bookmark	You can see the bookmark tree you added in Playback mode.
\$	You can show or hide the menu on the tree tab. You can set the display criteria for the device list displayed in the tree.

Learn about Timeline

< 2019-10-07 ▶ ▼	27 Frito	<]] 🕨 İx 💌	∎ [] Q
1 2 3 4	5 6 7 8 9 10 11	17:34:39	
1 I I		12 13 14 15 16 17 18 19 20 21 22 23	

◀ 2019-10-07 ►	You can search the recorded videos of the desired date from the calendar that appears when clicking the date.
T	You can search the recorded videos by filtering by event item.
æ	You can synchronize the playback time of multiple playback videos before playing or release playback sync. (Playback sync/Individual playback)
	You can only play back event video recordings displayed in the timeline through event filtering. (Play filtered section/Play all)
	You can move the recorded videos to the previous frame.
	You can play the recorded video.
►I	You can move the recorded videos to the next frame.
•	You can play the video in fast backward.
II	You can stop the video playback.
•	You can play the video in fast forward.
	You can bookmark the video section of interest while in Playback mode.
	 You can export the recorded videos to a file. Export video: Export the recorded video of a certain section to a file. Export video masking: Export the video after setting some areas that need privacy protection in the recorded video as a privacy area. Export one-time schedule: Export the video on the reserved schedule. Export schedule: Automatically export the video recording from the previous day at the specified time on the next day on a daily basis.
Q	You can go to the Advanced search menu.
LIVE PLAYBACK	You can switch Monitoring mode to Playback or Live mode. NOTE Switching Monitoring mode changes the mode of all video tiles collectively.

Learn about Menu Window

The screen configuration of the menu window may differ from menu to menu. For more information, please refer to the screen configuration by menu.

Learn about Add-ons



	When you select Change Password from the list box, you can change the password of the logged-in user.			
	When you select Logout from the list box, you can log out.			
user2	You can see the ID of the logged-in user.			
	You can check the fan, redundancy power supply system, and RAID status. If alarm is triggered due to a hardware problem, you can turn it off by clicking b. • user2 • • • • • • • • • • • • • • • • • • •			
••	 You can check the performance of a computer that SSM Console Client is installed. CPU usage: Displays the CPU usage of the current PC. Memory usage Memory usage: Displays the memory usage of the current PC. Network bandwidth: Displays the amount of network input/output data of the current PC. Scheduled export status: Off Scheduled export status: Displays the scheduled export action status: 			

ß	You can set a screen lock. Once button is clicked, the mouse cursor will changed to a locked shape and will be set as locked. To undo the locked setting, click on the screen and enter the password to log in. From full screen mode, users can set or undo the screen locks by pressing Ctrl + L .
\$	You can set SSM Console Client.
0	You can check the SSM Console Client information.
_	You can minimize the SSM Console Client screen.
	You can maximize the SSM Console Client screen.
×	You can exit SSM Console Client .

Get Started

Learn how to run and log in to SSM Console Client program.



NOTE

To start SSM Console Client program, SSM Core Server must be operating normally.

Run the Program

To run SSM Console Client program:

- Double-click the **SSM Console Client** program icon **W** on the desktop.
- You may also select **•** > Wisenet > SSM Console.

Log in to the Program

When you run the SSM Console Client program, it displays the login screen as below.



NOTE

- To log in to the **SSM Console Client** program, the status of all services of **SSM Core Server** must be displayed as **Started**.
- The service status of **SSM Core Server** can be checked in **SSM Service Manager**'s **Service Status** tab.

WISENET SSM Console Client			
Server ID Password	101Server user2	Cogin	
	✓ Save ID Auto login		

1. From the Server drop-down list, select SSM Core Server to connect to the SSM Console Client program.



NOTE

- If you can't find the server to connect in the drop-down list, click the server to the right of the drop-down list, select of the server to connect, and click **OK**.
- For more details about setup, please refer to the **Administrator Manual** or product homepage (http:// www.hanwha-security.com).
- 2. Enter your ID and password to log in.



NOTE

- If Save ID is selected, the ID entered in the login window will appear in the next access.
- If Auto login is selected, it is automatically logged in to the program in the next access.



NOTE

3. Click the Login button.

- If you fail to log in, please check if the service status of the server is displayed as **Started**.
- When you fail to log in 3 times or more, Login restrictions status is set to block login for 30 seconds.
- The Login restrictions setting can be changed in the menu under the Configuration as below: Configuration > System > Maintenance > Domain > Login restrictions
- Please change your **Password** periodically for security.

Monitor

You can monitor the multiple camera videos registered in SSM Core Server in real time.

In addition, you can search and play the recorded videos stored in **SSM Core Server** and network storage devices.

Open the Monitoring Menu Page

- 1. Run SSM Console Client. For more information, please refer to Run the Program.
- 2. Enter your ID and password in the Login dialog box, and click the Login button.

WIS	SENET SSM Conso	le Client	×
Server ID Password	101Server	Cogin	

• When you log in normally, the following initial screen appears.

W Monitoring 1 +			6	user1 📑 🛱 🏶 🕕 🗕 🌣
□ = ☆ # #				
 ✓ Ξ SSM Server(192.168.219.183) [™] XNP-6320(192.168.219.4) [™] XND-6081F2(192.168.219.3) [™] XNV-6081F(192.168.219.6) [™] XNV-60812(192.168.219.6) [™] XNV-60812(192.168.219.5) 				
• PRO-000112(35:000213:07) • P XNN-6410084(192:168.219:00) : : : : : : : : : : : : :				
Camera Alarm output Layout PTZ 🌣 🕩	16:40	1111 17:00	111111111111111111111111111111111111111	UIVE LIVE

Q

NOTE

SSM Console Client screens may vary in configuration, depending on the menu you select.

3. If you can't find **Monitoring** tab at the start of the program, click the [+] button at the top left of the program, and select **Monitoring** from the **Add tab** dialog box.



Learn about Tree Tab

Learn about the screen configuration and key functions of the **Tree tabs** you mostly use on the program's menu page.

Monitoring 1 +			۵ (aser2 📑 🛱 🌣 🔀 🗕 🖽 🗡
■ # 31 = 0 00 早 29 Ⅲ 5 9 ↓ ↓ ↓				Event Al BestShot
 ✓ Ξ SSM Server(192.168.219.183) ☞ XND-608172(192.168.219.3) ☞ XND-608172(192.168.219.5) ☞ XNP-63010R(192.168.219.7) ☞ XNP-6327(192.168.219.6) ☞ XNP-66327(192.168.219.6) 	WISENET			XNV-60812 (192:168.2196) 2020-05-68 (122.956) Stop playing(time : 2020-05-08 11 XNV-60812 (192:168.2196) 2020-05-68 (112.731) The received frame rate of the rec XND-8081V2 (192:168.2195) 2020-05-68 (121.262)
ter XNV-66812(192,168,2194) ▶	WISENET			Motion detection(Event ID : 1) Start
	WISENET		WISENET	XNP-6320 (192.168.219.4) 2020-05-08 11.02.31 The received frame rate of the rec XNV-6081Z (192.168.219.6) 2020-05-08 10.59.48 Motion detection(Tevnt ID : 1) Start SSM Server (192.168.219.183.451 2020-05-08 10.49.25 User Josin (Configuration Manager)
Camera Alarm output Layout PTZ & ()		۲۷۳ ۱۱ ۱۱۰۰۰ - ۲۰۰۹ ۱۱۰۰۰ br>۱۱۰۰۰ - ۲۰۰۹ ۱۱۰۰۰ - ۲۰۰۹ ۱۱۰۰۰ ۱۱۰۰۰ ۱۱۰۰۰ ۱۱۰۰۰ ۱۱۰۰۰ ۱۱۰۰۰ ۱۱۰۰۰ ۱۱۰۰۰ ۱۱۰۰۰ ۱۱۰۰۰ ۱۱۰۰۰ ۱۱۰۰ ۱۱۰۰ ۱۱۰۰۰ ۱۱۰۰۰ ۱۱۰۰۰ ۱۱۰۰۰ ۱۱۰۰۰ ۱۱۰۰۰ ۱۱۰۰۰ ۱۱۰۰۰ ۱۱۰۰۰ ۱۱۰۰۰ ۱۱۰۰۰ ۱۱۰۰ ۱۱۰۰۰ ۱۱۰۰۰ ۱۱۰۰۰ ۱۱۰۰۰ ۱۱۰۰۰ ۱۱۰۰۰ ۱۱۰۰ ۱۱۰۰۰ ۱۱۰۰۰ ۱۱۰۰۰ ۱۱۰۰۰ ۱۱۰۰۰ ۱۱۰۰۰ ۱۱۰۰۰ ۱۱۰۰۰ ۱۱۰۰۰ ۱۱۰۰ ۱۱۰۰ ۱۱۰۰ ۱۱۰۰۰ ۱۱۰۰۰ ۱۱۰۰ ۱۱۰۰ ۱۱۰۰ ۱۱۰۰۰ ۱۱۰ ۱۱۰۰ ۱۱۰۰ ۱۱۰ ۱۱۰۰ ۱۱۰۰ ۱۱۰ ۱۱۰ ۱۱۰۰ ۱۱۰ ۱۱۰ ۱۱۰۰ ۱۱۰ ۱	:32:57	

Camera	You can see the list of cameras registered in SSM.
Alarm output	You can see the list of alarm output, or control the alarm output.
Layout	You can see the list of layouts available in SSM, or create user layout.
PTZ	You can control the videos of PTZ Cameras.
Bookmark	You can see the bookmark tree you added in Playback mode.
*	You can show or hide the menu on the tree tab. You can set the display criteria for the device list displayed in the tree.

Learn about Camera Tab

You can see the list of devices registered in SSM. You can preview the video on the camera, change the device's connection status, or check the properties of the device. In addition, you can access the device web viewer to change device settings remotely.

Preview Camera Video

- 1. Click the Camera tab.
- 2. Hover the mouse pointer over the desired camera from the camera tree.
- 3. Check the thumbnails of the camera.



Q

NOTE

If the device does not support preview, then the **No preview support** tooltip appears when you hover the mouse pointer over it.

- Connect or Disconnect the Device
 - 1. Click the Camera tab.
 - 2. Select the desired device from the camera tree.
 - 3. Right-click and select **Connect** or **Disconnect**.



See the Device or Camera Properties

- 1. Click the Camera tab.
- 2. Select the desired device from the camera tree.
- 3. Right-click and select **Device properties** or **Camera properties**.

Open the Device or Camera Setup Page

- 1. Click the Camera tab.
- 2. Select the desired device from the camera tree.
- 3. Right-click and select Open setup page. The device's web viewer appears in the browser.

Learn about Camera Icon

0	This is a normal camera that does not support PTZ functions.					
B	This camera supports PTZ functions.					
**	Recording a real-time video of the camera in progress.					
E	It is displayed when the operator manually disconnects the camera.					
ex	It is displayed when the network connection with the camera is lost.					
Ū	It displays a Box camera.					
	It displays a PT driver camera.					
360	It displays a Fisheye camera.					
G.	Display live cameras. (Videos cannot be recorded and can only be viewed live.)					
C.	It will be displayed if the video is being recorded on internal SD cards.					
4	When a failover on SSM Core Server occurs, the failover icon appears to the right of the camera icon. Failover-occurred SSM Core Server is displayed as disconnected.					

Learn about Alarm Output Tab

You can display and control the lists of alarm output for the devices registered in **SSM Core Server**. Only the alarm output of devices that support alarm output is displayed.

Enable/Disable Alarm Output

- 1. Click the Alarm output tab.
- 2. Select the desired alarm output in the alarm output tree.
- 3. Right-click and then click Alarm output on or Alarm output off.

Learn about Layout Tab

You can monitor the camera video by splitting the video screen in various ways. You can set the camera video array in **Shared layout**, **Map layout**, and **User layout**. In addition, when you use sequence function, you can monitor multiple layouts in order.

Learn about Shared Layout

You can monitor the camera video with a layout set in Configuration. You can change shared layout settings in **Configuration > Design > Layout**.



NOTE

Shared layout is available for the entire users registered in the same domain.

Learn about Map Layout

You can monitor the camera video on the map or the plan. You can change map layout settings in **Configuration** > **Design** > **Map**.

Learn about User Layout

You can monitor the camera video with a layout you created.



NOTE

User layout is only available for logged-in user and cannot be shared with other users.

Learn about Sequence

You can monitor the camera video after placing multiple camera videos on two or more shared layouts, then switch the layouts in order.

Learn about PTZ Tab

You can control the camera video registered in SSM. You can control the PTZ functions of the PTZ camera and adjust the digital zoom, DIS, and focus of the normal camera.

Q

NOTE

- Supported PTZ specifications may vary, depending on the camera model.
- Even if you have a box camera that does not have PTZ functions, you can use some functions when **Fish Eye** is set.
- PTZ functions may not be supported, depending on the camera model. For more information, please refer to the User Manual of the camera.
- For Fisheye or SUNAPI cameras, Set home position function is available.
- You can select the PTZ cameras and press the arrow keys to control the PTZ cameras in the selected direction.



■ Learn about PTZ Control Buttons and Functions

No.	Screen Configuration	Detailed Description on Functions
0	Enter camera setup menu	You can display the camera setup menu on the video in OSD format.
2	Exit camera setup menu	You can close the camera setup menu displayed on the video.
3	Original size	You can click the button to change the zoom magnification of the video zoomed in or out with area zoom set as x1.
4	Move among camera menus	You can click the arrow buttons on the camera setup menu displayed in OSD format on the video to move the menu up, down, left, and right.
5	PTZ ball	You can control the direction of the PTZ cameras by clicking and dragging the ball inside the circle.
6	Sensitivity	You can adjust the PTZ control sensitivity.
0	Focus setup	You can manually adjust the focus of the camera. Values in the drop- down list indicate the focus shift interval, and the sutton shifts the focus nearby and the sutton shifts the focus faraway.
8	Simple focus	You can automatically adjust the focus of the camera.
9	Open/Close iris	You can open or close the iris of the camera lens.
0	Zoom setup	You can zoom in/out on the video magnification with optical zoom of PTZ cameras, and adjust the zoom speed. The value in the drop-down list indicates the zoom shift interval. The solution and solution and solution zoom out/in on the video, respectively.
0	Preset	You can use the camera's preset movement functions.
Ø	Trace	You can use the camera's trace function.
₿	Group	You can use the camera's group function.
0	Swing	You can use the camera's swing function.
6	Tour	You can use the camera's tour function. Tour supports Device tour set by the camera and SSM tour set by SSM Configuration.
6	DIS on/off	You can use the camera's DIS function. You can click the button to set DIS to stabilize shaky videos, and click again to release DIS.



NOTE

Refer to the following description for terms related to camera functions.

- Simple focus: Function to automatically adjust the focus based on the user-specified position on the screen or the entire screen
- Preset: Function to call the specific positions of specified PTZ cameras
- Trace: Function to call the travel path of the specified PTZ cameras to move them
- Group: Function to call the specified multiple presets in sequence
- Swing: Function to move two preset sections repeatedly with the camera moving back and forth
- Tour: Function to call multiple groups of the specified presets in order
- Auto tracking: Function of PTZ cameras to automatically track moving objects
- DIS: Function to automatically stabilize shaky videos when shaking is detected for more stable camera video

Learn about Bookmark Tab

You can display the added bookmark tree in the Playback mode or play the recorded video when setting a bookmark. You can also change the bookmark name or delete the bookmark.

F		1	
K			
10		L	

NOTE

- You can add up to 10,000 bookmarks.
- When the maximum number of bookmarks is exceeded, the oldest bookmark currently stored will be deleted.

Check Bookmark Tree

- A bookmark is displayed with a triangle at the bottom of the timeline.
- You can double-click the bookmark in the bookmark tree to move directly to that video.
- You can select the desired bookmark in the bookmark tree to play, rename, and delete bookmarks you have added.

Learn about Setup Tab

You can click the state button to the right of the tree tab to change the device list display based on the **Device** or **Site**.

- Device: SSM Core Server-registered devices are displayed.
- Site: The site-registered device list is displayed.



Learn about Shortcut Menu

You can sort the devices in the tree tab or control the tree. When you right-click the tree tab, the shortcut menu appears.



Hide IP	It does not display the IP address of the device when displaying the name of the device.
Sort by name	You can sort devices by device name.
Sort by registration date	You can sort devices by the registration date.
Sort by connected	You can sort devices based on their connection status.
Expand tree	All devices registered in SSM Core Server are displayed at once.
Collapse tree	All devices registered in SSM Core Server are hidden.

Monitor Live Videos

You can monitor camera videos of the network devices registered in SSM Core Server in real time.

- 1. Open the **Monitoring** menu page.
- 2. Double-click the desired camera from **Camera** tab. Or select the desired camera from Camera tab and drag it on a tile of the video window.

Monitoring 1 +			٩	user .: 🛱 🌣 🛈 _ 🗆 🗙
	WISENET			WISE NET
 ✓	WISE NET			WISE NET
► # X8N-6410D64(192.168.219.100)				WISE NET
		N'ISE NET		WISE NET
				N I Q
Camera Alarm output Layout PTZ 🏚 🕩	11:20	11:40	12:20 1111 111	IVE PLAYBACK



NOTE

- When you double-click the camera, the camera videos will be placed from the tile at the top left of the video window in order.
- If you double-click the same camera repeatedly, video feed from the same camera will be place multiple times on top of another.
- Double-click a DVR or NVR registered on the 'SSM Server' to view all videos registered to said device.
- You can double-click 'SSM Server' at the top of the tree to place all cameras registered in the server on the tiles at once.
- When you click a video tile and drag it on another tile in a different location, you can switch the locations of the tiles.
- Double-click the desired video from a video split-screen to monitor it on one large screen. While doing so, you can click on the < or > button at the bottom right of the video to view the previous or next video.

Learn about the Video Window Configuration



No.	Screen Configuration		Detailed Description on Functions	
0	Camera name/IP address		It displays the camera name and IP address. It displays the set camera name if you have set the Use device name option via Setup > Display > Show tree .	
2	Date/Time		It displays the date and time of the video.	
	®		It is displayed when the camera certificate of the selected video is valid.	
8	•		It is displayed when the selected video is saved on your PC.	
	æ		It is displayed in the event of a parking detection event.	
	-69-		It is displayed when the camera disconnects due to an unstable network connection.	
	Video input status	It is displayed when you do not have playback permissions due to an excessive number of users.		
		2	It is displayed when the number of users allowed for simultaneous playback has been exceeded.	
4		\otimes	It is displayed in the event of video loss.	
			It is displayed when the image has no recording data.	
			It is displayed when the camera is not connected.	
	Θ		It is displayed when you do not have monitoring permissions for the live or playback video.	

Monitor Real-time Events

You can check the real-time events of the network devices registered in **SSM Core Server** in the **Real-time events window**.

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□ 昌 次 眠 簡 23 Ⅲ 6 享 G 秋 & ↓ ↓			WISE NET	Event Al BestShot 2 SSM Server (192:168:213.183451 2020-05-08 11:25:59 User logout (Configuration Manag
 SSM Serve(192.166.219.183) XND-608172(192.168.219.3) XND-6081V2(192.168.219.7) XNP-63010R(192.168.219.7) XNP-63010(192.168.219.4) XNV-60817(192.168.219.4) 	W'ISENET		WISENET	XXH-46812 (192.168.219.6) 2020-05-08 11 XXH-46812 (192.168.219.6) 2020-05-08 11 XXH-46812 (192.168.219.6) 2020-05-08 11.27.31 The received frame rate of the rec XXH-90812 (192.168.219.5) 2020-05-08 11.21.216
b == XRN-64100B4(192.168.219.100)			WISENET	Motion detection(Event ID: 1) Start XMV-60812 (192:682/296) 2020-05-06 112125 Motion detection(Event ID: 1) Start XMV-60812 (192:682/296) 2020-05-08 11:1938 Start playing/time: 2020-05-08 10
	WISENET		WISENET	XNP-6320 (192.168.219.4) 2020-05-06 1140231 The received frame rate of the rec XNV-60812 (192.168.219.6) 2020-05-06 10459.45 Motion detection/Event ID : 1) Start SSM Server (192.168.219.163.451 2020-05-06 104.92.5 User login (Configuration Manager)
Camera Alarm output Layout PTZ 🔯 (🕩		Live 11: ۱۹۰۰ میں ۱۹۹۹ میں میں ایک میں	32:57	1

No.	Screen Configuration	Detailed Description on Functions					
0	Event list	 You can view or search a list of the real-time events that occurred in the device. When a new event occurs, a list of events is added in order. 					
	Ľ	You can see the live or event video when instant viewer is enabled. The setup mode is maintained even if SSM Console Client program is restarted.					
0	T	 You can search events using desired parameters. You can set the priority of events to be displayed in the Real-time events window. You can set the priority of events in Configuration > Event > Management menu. Event filter Al BestShot filter Filter Cameras Al cameras Cameras on layout Selected cameras on layout Sel					
	0	You can remove all the event lists displayed in the Real-time events window.					
3	•	You can open or close the event window.					

Preview Event Information

When an event occurs, you can preview the information of the event in the Real-time events window.

If you want to see the detailed information about the event, double-click the event. Instant viewer runs.

Event tab

It displays the name of device where the event occurred, occurred time, colors by event type and event name.

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[1] 문 (2) 課 暗 2) 패 입 및 (3) 제 옷 호 (2) * (3) (2)(2)(2)(2)(2)(2) * (3)(2)(2)(2)(2)(2)(2)(2)(2)(2)(2)(2)(2)(2)				Event All Battshot Image: All Battshot Image: All Battshot <t< th=""></t<>
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Al BestShot tab

It displays the name of device where the event occurred, occurred time, colors by event type and bestshot.



Use Instant Viewer

NOTE

Double-clicking the event executes the instant viewer, and the video at the time of the event is played back. You can find the detailed information regarding events such as camera name, event type, occurred time, etc. in the Instant viewer.



For details about the Instant viewer's functions, please refer to the pages linked by the links below.

- Learn about Timeline
- <u>Control Playback Speed</u>
- <u>Confirm Events</u>

Event Instant Viewer




No.	Screen Configuration	Detailed Description on Functions	
0	Digital zoom	You can zoom in/out on the video on the tile with digital zoom.	
2	Camera name	You can check the name of the camera where the event occurred.	
8	Video tile	You can play the recorded video of an event that occurred or check the real-time videos from the camera.	
4	Control playback speed	You can control the playback speed when playing the recorded videos. For more information, please refer to Monitor > <u>Control Playback Speed</u> .	
5	Unlock	A Call button push detection event occurs when the door unlock funct	
6	Broadcast to selected camera	has been requested via an alarm output due to a Call event on the intercom device. In such a case, you can switch the mode to live and have a two-way call via the intercom device or unlock the door.	
0	Timeline	You can control the timeline when you play the recorded video of an ever that occurred.	
8	Switch to live Switch to playback	You can play a video recorded at the time of an event or switch the mode to a real-time live video feed of the camera.	
9	Event details	You can see the detailed information about the event.	

No.	Screen Configuration	Detailed Description on Functions	
0	Confirm event	You can change the event status after confirming the event. You can check the history of the event status by clicking History in Event details when confirming the event in the Event menu. For more information, please refer to <u>Confirm Events</u> .	
0	Alarm type	You can set Alarm type after confirming the event.	
12	Confirm/Cancel	You can confirm and close the situation of the monitoring event. Clicking the Confirm button changes the event status to "Confirmed."	

Event Terminology

Event Name	Description
Motion detection	An event occurs when motion is detected in the area of interest set in the camera.
Video loss	An event occurs when DVR, NVR, encoder device cannot receive camera videos.
Intelligent Video Analytics (IVA)	You can search all the Intelligent Video Analytics (IVA) events by grouping them all together.
Crossing	An event occurs when an object crossing a virtual line set on the camera is detected.
Enter	An event occurs when a moving object enters from outside to inside of the virtual area set in the camera.
Exit	An event occurs when a moving object exits from inside to outside of a virtual area set on the camera.
Appear/Disappear	An event occurs when an object that does not exist in the virtual area set by the camera remains in the area for a certain period of time or when an object within the area does not exist for a certain period of time.
Tampering detection	An event occurs when the camera video is hidden or the camera position is changed.
Auto tracking	An event occurs when the moving object is automatically tracked on the camera video.
Face detection	An event occurs when a person's face is detected on the camera video.
Audio detection	An event occurs when audio is detected at the level set by the camera.
Failed to connect	An event occurs when the camera cannot be connected.
Connect camera	An event occurs when the camera is connected.
Disconnect camera	An event occurs when the camera is disconnected.
Defocus detection	An event occurs when the defocusing of the camera lens is detected.

Event Name	Description	
Intrusion	An event occurs when a moving object is detected within the virtual area set in the camera.	
Loitering	An event occurs when motion of a loitering object is detected within the virtual area set in the camera.	
Fog detection	An event occurs when the camera detects foggy or cloudy images.	
Scream	An event occurs when the camera detects a screaming or shouting person.	
Gunshot	An event occurs when the camera detects gunshots.	
Explosion	An event occurs when the camera detects an explosion.	
Crashing glass	An event occurs when the camera detects the sound of shattering glass.	
Temperature change detection	An event occurs when a sudden temperature change occurs in the area of interest set in the camera.	
Shock detection	An event occurs when a shock or vibration is detected on the camera or when a change in physical location of the camera is detected.	
Alert for video recording	An event occurs when the incoming frame rate of the recording profile is lower than the configured value.	
Object detection (Person) Object detection (Vehicle) Object detection (Face) Object detection (License plate)	An event occurs when a preset object such as a person, face, vehicle, or license plate is detected by the camera.	
Face mask detection	An event occurs when the face of a person wearing or not wearing a mask is detected on the camera screen.	
Estimated body temperature detection	An event occurs when temperature equal to or higher than the specified temperature level is detected by the camera.	
Occupancy monitoring (over the limit) Occupancy monitoring (under the limit)	An event occurs when the number of people is over or under the specified value of indoor capacity set for the camera.	
Parking detection	An event occurs when a vehicle parks in or out of the parking lot.	
Social distancing detection	An event occurs when the distance between people is closer than the distance set on the camera.	
Call button push detection	An event occurs when the camera detects a call request.	
Tampering switch detection	An event occurs when it detects manipulation of the camera's tampering switch.	

Control Tile Videos

You can monitor camera videos and control the videos on tiles.

Control Tiles

A variety of features listed below are readily accessible by using the feature icons on top of the video tile.



Screen Configuration	Detailed Description on Functions
₹ ‡ 3	For camera videos supporting the metadata sharing feature, you can click the button to share metadata with all channels.
\Diamond	For videos supporting the wiper feature, you can click the button to automatically stop the camera's wiper after a certain amount of time.
\odot	You can start or stop the auto tracking feature of the PTZ camera. ' Alt-click ' the tracking target to start auto tracking it.
\bigcirc	Digital PTZ profile can use the auto tracking feature. However, you cannot ' Alt-click ' a target to auto track it.
8≡	For videos that support thermal camera functions, you can click desired locations to verify temperature information.
\Leftrightarrow	You can control the operations of PTZ cameras. Enter or leave PTZ control mode.
	You can capture a video of a tile and save it as a. jpg file. You can change the storage path for the captured image files in the SSM Console Client settings.
	You can record a video of a tile on your PC. When you click the button, the video is recorded on your PC, and when you click again, the recording is stopped.
Θ	You can zoom in/out on the video on the tile with digital zoom.
֯-	You can adjust brightness and contrast of video or set them to default.

Controlling the PTZ Camera

Clicking \bigoplus will display + in the center of the screen, and move to PTZ Control Mode.



NOTE

• Depending on the camera, there may be discrepancies in PTZ control functions and speeds.

Fine adjustment of camera direction

Moving the cursor on to + will bring up 8 direction arrow keys, which disappear when the cursor moves away from the arrow key area. Click on the arrow keys to make fine adjustments to the camera directions. Keep clicking on the arrows to move the cameras in the desired direction.



Rapid adjustment of camera direction

Click on + and drag to move the screen in the desired direction.

The distance of the drag will determine the speed of the movement of the screen.

Move to center screen

Clicking on a specific location on the screen will cause the video in that location to move to the center of the screen.

Expand selected area

Dragging a specific area of the screen will expand the selected area and move it to the center of the screen.

Expand and Shrink videos

Use the mouse wheel to increase or decrease the size of the videos, and drag the desired area to increase the video size. To return the video to the original size, click 🔞.

Learn about Shortcut Menu

When you right-click the tile, **Shortcut menu** appears. **Shortcut menu** may appear differently depending on the monitoring mode.

Remove video	You can close camera videos of the selected tiles.		
Playback	You can switch from Live mode to Playback mode. It is available in Live mode only.		
Live	You can switch from Playback mode to Live mode. It is available in Playback mode only.		
Playback sync	When playing multiple camera videos in Playback mode, all cameras can be played from the same playback time. It is available in Playback mode only.		
OSD	You can display the title, date, and time of the camera on the video.		
Video information	You can display the video information of the selected tiles.		
Capture	You can capture the videos of the selected tiles and save them as a .jpg file. You can change the storage path for the captured image files in the SSM Console Client settings.		
Print	You can print videos of the selected tiles.		
Local recording	You can record the videos of the selected tiles on your PC. When you click the button, the camera videos are recorded on your PC, and when you click again, the recording is stopped. It is available in Live mode only.		
Device recording	You can record the videos of the selected tiles on your device. When you click the button, the camera videos are recorded on your device, and when you click again, the recording is stopped. It is available in Live mode only.		
Listen	You can listen to the audio received from the camera. When you click the button, you can listen to the audio from the camera, and when you click again, it is set to silent.		
Microphone on	It performs "Speak into the microphone" on the camera of the selected tile. It is available in Live mode only. NOTE "Speak into the microphone" is only available for the cameras supporting microphone.		
Broadcast to selected camera	You can broadcast the desired sound files through the camera of the selected tile.		

Send to wall You can output the video and audio of the selected tile to the location of the video wall.			
Aspect ratio You can zoom in or out on the video screen to view videos by th the tiles while maintaining the aspect ratio of the camera video r			
Original size	You can view the video with the actual resolution size of the camera video.		
Flip	You can flip the video of the tile upside down.		
Defog	You can correct the camera video on foggy or overcast days. Clicking ▶ button displays setup values. When Off is set, the defog function is disabled, and when Auto is set, the surrounding environment is detected for the camera to correct the video automatically. When you set "1 to 10" (hereinafter, defog level), you can directly set the amount of correction based on the surrounding environment. Even if the degree of fog decreases, you can set it to Manual to continuously operate the function up to the set defog level. The higher the defog level, the sharper the video will appear. Increasing the defog level when the degree of fog is low may cause the screen to look dark. It is available in Live mode only.		
Reset all alarms	You can remove all alarm displays on the video tiles. It is available in Live mode only.		
Profile	You can display the profile lists supported by the camera and change the profile of real-time videos. It is available in Live mode only.		
You can see camera properties of the selected tiles. You canCamera propertiescamera name, device model, video resolution, video and audcamera functions in the Camera properties dialog box.			

Use Video Layout

You can monitor multiple camera videos at once by splitting the video screen in various ways. You can set the camera video array in **Shared layout**, **Map layout**, and **User layout**. In addition, when you use sequence function, you can switch among multiple layouts sequentially to monitor camera videos.

Learn about Shared Layout

You can easily monitor the camera video using the layout specified in Configuration. You can set shared layout in **Configuration > Design > Layout**.



NOTE

Shared layout is available for the entire users registered in the same domain.

Learn about Map Layout

You can monitor the camera video on the map or the plan, rather than the split video tile. You can set map layout in **Configuration** > **Design** > **Map**.

Control Map Layout Screen

The set map is displayed when the desired map layout is double-clicked. A Control button appears when the cursor is in the top-right corner of the maps, and the map layout can be moved or zoomed in/out.



No.	Screen Configuration	Detailed Description on Functions			
0	ImpMap2ImpMap3You can double-click the Map button to quickly move to the desired • The background color of the Map button flickers when an event for the camera of the selected map.				
2	The video window is displayed when the camera icon is double-click The background color of the camera icon flickers when an event occurs for the camera. An instant viewer is displayed when the flickering icon is double-clicked.				
3		 You can increase the window size every time you double-click the video window. Click the video window and drop it on the desired location to move its location. Click the video window and press the Delete key to delete the video window. 			
4	< □ →	 You can rotate the map layout. (Counterclockwise/Front/Clockwise) The angle of the map layout can be changed when dragged with the mouse while holding the right-click. 			
5	r ^ 7 < + > L _ J	 You can move the map layout to the direction displayed on the button. (Top/Bottom/Left/Right, Top/Bottom Left, Top/Bottom-Right, Center) The layout can be moved to the desired location when dragged with the mouse while holding the left-click. 			
6	+	You can drag the pointer to the top or bottom to zoom in or out the map layout. • Using a scroll wheel also enables the layout to be zoomed in or out.			

Learn about User Layout

You can monitor the camera video freely with a layout you added.



NOTE

User layout is available for the applicable user only.

- Add User Layout
 - 1. Click the Layout tab.
 - 2. Click the [+] button to the right of User layout.

Shared layout	
Map layout	
User layout 🕂	
Sequence +	

3. Select the added layout.



Select the Tools tab at the top left of the Monitoring menu page.
 Click the button to select the desired screen split.

AUTO	ป	4	9	16	25	36
49	64	72	81	100	121	132
		+				

• Click the 📑 button to add the desired screen split.

Add user pattern			×
			Create
			Jamerge Reset
	Save	Cancel	
	Save	Cancer	

5. Click the 📓 button to save the layout settings.

	Shared layout		
	Map layout		
4	User layout 🕂		
	≕ MyLayout01	61 🖬 亩	
	Sequence +		

Edit User Layout

Duplicate	When you click the 🗖 button to the right of the user layout, you can duplicate the user layout.
Delete	When you click the $\overline{\mathbf{m}}$ button to the right of the user layout, you can delete the user layout.
Rename	When you double-click a user layout, you can rename the user layout.

Change Layout

You can change the layout of the video window to the various layouts you have already specified.

- 1. Click the Layout tab.
- 2. Double-click the layout you want to change among Shared layout, Map layout, and User layout.

Learn about Sequence

You can monitor the camera video after placing multiple camera videos on more than one shared layout or user layout, then switch the layouts in order.



I

NOTE

You can only run the sequence when you set 2 layouts or more.

Add Sequence

- 1. Click the Layout tab.
- 2. Click the [+] button to the right of Sequence.



3. Enter the sequence Name in the Sequence dialog box.

Sequence			×
	Dwe	ll time 🛛 10 s	
+	î	L	•
Use Layout			
Nan	0		
Ivan			
			Cancel

4. Click the [+] button in the Sequence dialog box.



5. From the Layout drop-down list, select the shared layout to be added.



- 6. Repeat Steps [2] to [4] more than once to add multiple layouts in Sequence.
- 7. Set Dwell time, and then click the Apply button.



NOTE

Dwell time refers to the time spent for switching from the current layout to the next layout.

Play Sequence

When you play a sequence, you can switch among multiple layouts sequentially to monitor videos of multiple cameras at once.

- 1. Click the Layout tab.
- 2. Select the desired sequence in the sequence list.



3. Click the button to the right of the sequence name.



Edit Sequence

You can change the setting value of the sequence already specified.

- 1. Click the Layout tab.
- 2. Select the sequence to edit in the sequence list.



- 3. Click the 🗾 button to the right of the sequence name.
- 4. Modify the desired items in the **Sequence** dialog box.

You can edit Dwell time, Conversion wait time, and Shared layout. In addition, you can change the playback order of the shared layouts or change the sequence name.

5. Click the Apply button.

Delete Sequence

- 1. Click the Layout tab.
- 2. Select the sequence to delete in the sequence list.
- 3. Click the 🔟 button to the right of the sequence name.

Monitor Recorded Video

You can search or play the recorded videos stored in **SSM Core Server** or network device. You can search the recorded videos of the camera by date or event. You can play and monitor the recorded video that you searched.

Switch to Playback Mode

You can switch to Playback mode while monitoring the real-time video of the camera.

- 1. Select the desired video tile in the video window.
- 2. Click the **button** at the bottom right of the Monitoring menu page. A video recording taken five minutes before the live hour is played back.



• You can right-click on the video tile to select **Playback**, or you can click the timeline to switch to Playback mode. To play back a video recorded at a specific time, click the time on the timeline.



NOTE

- Switching to Playback mode switches the mode of all video tiles to play.
- Switching to Playback mode displays the timeline at the bottom as the timeline of the selected tile.
- When you click the button in Playback mode, you can switch to Live mode.

Learn about Timeline

Switching to Playback mode displays a split marker bar on the timeline below the page. The split marker bar is only displayed in the section with recorded videos.

Timeline is displayed on a daily basis (24 hours), and when you click the time, the recorded video at that time is played. When you start playback, the search date and playback time are displayed. You can then monitor while controlling the playback speed.



No.	Screen Configuration	Detailed Description on Functions
0		You can search the recorded video of the previous date.
0	2019-10-07	This displays the search date. When you click this date, a calendar is displayed. You can search the recorded videos of the applicable date when you click the desired date from the calendar. For more information, please refer to <u>Search the Recorded Videos by Date</u> .
8		You can search the recorded video of the next date.
4	T	You can search the recorded videos by filtering the event items.
6	100	You can synchronize the playback time of multiple playback videos before playing or release playback sync. (Playback sync/Individual playback)
6		You can only play back event video recordings displayed in the timeline through event filtering. (Play filtered section/Play all)
0	≪ II ≯	You can control the playback speed when playing the recorded videos of the camera.
8		You can bookmark the video section of interest while in Playback mode.
9		 You can export the recorded videos to a file. Export video: Export the recorded video of a certain section to a file. Export video masking: Export the video after setting some areas that need privacy protection in the recorded video as privacy areas. Export one-time schedule: Export video according to the reserved schedule. Export schedule: Automatically export the video recording from the previous day at the specified time on the next day on a daily basis.
0	Q	You can go to the Advanced search menu.

0	17:34:39 14 15 16 17 18 19 1 1 1 1 1	When there is a recorded video on the search date, the split marker bar is displayed on the timeline.				
	LIVE PLAYBACK	You can switch Monitoring mode to Playback or Live mode.				
Ð		NOTE Switching Monitoring mode changes the mode of all video tiles collectively.				
		collectively.				

Use Shortcut Menu

You can set the time interval when you refresh, back up, or search the real-time recording status on the timeline.

Reset time range	The start time and end time tooltips for setting the time interval for backup, bookmark, and search menus appear. For time settings, you can enter a time value, either by clicking and moving the tooltip to the left or right or by double-clicking the tooltip.
Refresh timeline	This searches the recorded videos stored in SSM Core Server or network storage device once again to update and display the real-time recording status on the timeline.



NOTE

- The split marker bars on the timeline are displayed in different colors depending on the event type of the recorded videos. For more information, please refer to <u>Search the Recorded Videos by Event</u>.
- You can zoom in or out on the timeline by scrolling a mouse wheel over the timeline.
- When you click the timeline and drag it to the left or right, you can move the time on the timeline.

Search the Recorded Videos by Date

You can search the recorded videos stored in **SSM Core Server** or network storage device with the date on the calendar.

- 1. Switch to Playback mode.
- 2. Select the video tile to search.
- 3. Click the date on the timeline below.



4. Select the desired date when the calendar appears. The dates with the recorded videos are indicated with an orange block.



5. The time line of the selected date is displayed on the screen. Clicking on the desired time on the time line will play the video from the designated time.

Search the Recorded Videos by Event

You can search the recorded videos of cameras, filtering by event.

1. Switch to Playback mode.

- 2. Select the video tile to search.
- 3. Click the watche button at the top left of the timeline.



4. Select the desired event in the Filter dialog box.



- 5. Click the Apply button. The recorded video of the filtered event is displayed on the timeline.
- 6. To play back a filtered event video recording displayed in the timeline, click the **Play filtered** section button.



Recording Event Terminology

Event Name	Description
Object detection	A recording event occurs when the AI camera recognizes a person, vehicle, face, or license plate.
Sound classification	A recording event occurs when a sound classification event such as scream, gunshot, explosion, or glass breaking is detected by the camera.
Two-way audio	A recording event occurs when sounds being sent to the camera are output or saved.
Alarm input	A recording event occurs when an alarm input is detected.
Auto recovery backup	This displays the recorded video section saved with Auto recovery backup.
	Auto recovery backup is a function to backup the recorded video from a camera when network is unstable and cannot record from disconnection point to reconnection point.
User defined event	A recording event occurs when an event specified in Configuration is detected.
Continuous	It means that camera videos are recorded continuously without any event separation.
Manual	Device recording is available only when the camera registered in the storage device does not have the recording schedule or event recording is set. Right- click the video tile and click Device recording to record camera videos on the storage devices.

Synchronize Playback

When playing multiple recorded videos, all the video tiles can be played from the same date and time. When you click the button, the playback times of all the video tiles are synchronized. When you click the button again, playback sync is released, and you can play the videos individually per tile.

- 1. Switch to Playback mode.
- 2. Select the tile that is the basis of the playback time.
- 3. Click the 🚀 button at the top left of the timeline. The videos of all the tiles are played, matching the date and time of the selected tile.



NOTE

- Playback sync is only available in devices supporting playback sync.
- If playback sync is set, you cannot search the recorded videos by tile.
- You can click the 🖉 button to release playback sync and enable individual playback by video tile.

Control Playback Speed

You can control the playback speed when playing the recorded videos.

•	You can fast rewind the playing video. You can play -1x, -2x, -4x, -8x, -16x, -32x, -64x and -128x with each click of the button.
11	You can pause the playing video.
	You can fast forward the playing video. You can play at 1x, 2x, 4x, 8x, 16x, 32x, 64x, and 128x speed with each click of the button.
	You can move to the previous frame while pausing the video.
	You can play the recorded video.
►I	You can move to the next frame while pausing the video.
1x •	The current playback speed is displayed, and the desired playback speed can be chosen. Depending what the device supports, users can choose from 1/2x or 1/4x slow playback.

Add Bookmark

You can bookmark the video section of interest while in Playback mode. You can check the bookmarks you added in **Bookmark** tab. For more information, please refer to Use Bookmark > Add Bookmark.

Switch to Live Mode

You can switch to Live mode while playing the recorded video of the camera.

- 1. Select the desired video tile in the video window.
- 2. Click the **EXAMPLE** button at the bottom right of the Monitoring menu page. You may also rightclick the video tile and click **Live**.





NOTE

- Switching to Live mode switches the mode of all video tiles to Live.
- Switching to Live mode resets the timeline at the bottom to an empty timeline.
- When you click the button while in Live mode, you can switch to Playback mode. Live cameras will not switch to playback mode.

Export Recorded Videos to a File

You can export the recorded videos stored in **SSM Core Server** or network storage device to a file. You can immediately export the recorded videos to a file or export them to a file according to a schedule after setting the schedule. In addition, you can hide some areas of the recorded video in privacy areas and export them to a file.



NOTE

- Export is also available in the **Advanced search** menu.
- If you export the recorded video in AVI file format, then a new file is created in the following cases:
 - When the video resolution of the recorded video is changed
 - When the audio or video codec of the recorded video is changed
 - When file size of the exported video is 2GB or more
- If you export the recorded video in SEC file format, two files are created in the recording path.
 - The SEC extension file is the exported video.
 - The EXE extension file is a viewer program.
- The exported video file can be played as follows:
 - When you run an EXE file with the same name as the SEC file, you can play it in **Backup viewer**, which is a video playback program for SEC file only.
 - AVI files can be played in normal video playback programs.

Export Video

You can export some sections of the recorded video to a file.

- 1. Switch to Playback mode.
- 2. Select the video tile to export.
- 3. Click the o button at the top right of the timeline.



4. Click Export video.



5. Select one or more cameras in the **Export video** dialog box. You can export multiple camera videos at the same time.

Export video			
No.	Camera	Storage	Status 🔺
1	QND-6070R	Remote	Waiting
2	XNV-6081Z	Remote	Waiting
3	PND-A9081RV_CH001	Remote	Waiting
4	PND-A9081RV_CH002	Remote	Waiting
5	XNF-8010R	Remote	Waiting
6	XND-8081VZ	Remote	Waiting
7	XNP-6320	Remote	Waiting 👻
•			
Time range	2019/11/22 10:48:45	2019/11/22	2 15:36:06 🛟

6. Set the time range of the recorded video to be exported from the timeline. Use the time tooltip on the timeline to change time settings. For more information, please refer to <u>Set Time Interval</u>.

7. Set the Path to store the export files.

Path	C:₩Users₩Public₩Documents₩ ¹	Wisenet₩SSM₩
File format	⊙AVI ●SEC	
🗹 Export video in high resolu	ion	
Support simultaneous mu		
Enable SEC file encryptio		
New password		
Confirm new password		
Check estimated capacity		xport space : 0,0 GB
		Used space : 73,9 GB Free space : 36,7 GB
	Export Cancel	

- 8. To export videos in high definition, check the Export video in high resolution box.
 - Videos will be exported at low resolution if this option is not used.
 - This setting will only work when low resolution and high resolution videos are being recorded simultaneously.
- 9. Set File format.

When you select SEC file, the following options are available.

- **Support simultaneous multiple camera playback**: When playing multiple recorded videos in Backup viewer after exporting them, you can play the recorded videos from multiple cameras at the same time.
- Enable SEC file encryption: When using a SEC file format, you can set a password in the export file.

NOTE

- When you play the exported file in **Backup viewer**, you must enter the password before playing.
- If you lose your password, then you will not be able to play the exported file.

10. To check the estimated size of the exported file, click the **Check estimated capacity** button.

- Only the size of video recordings stored in the SSM Core Server can be checked.
- This function cannot be used when multiple cameras have been selected including cameras from network storage devices other than the **SSM Core Server**.
- 11. Click the **Export** button.

Click the Cancel button to cancel the export.

Export Video Masking

You can export the video after setting some areas of the video as privacy areas. Privacy areas can be set in areas where privacy is required or in areas where monitoring is not required.



NOTE

It supports the SEC file format only.

- Selecting a masking mode
 - 1. Select the video tile to export.
 - 2. Click the 🚺 button at the top right of the timeline.



3. Click Export video masking.



4. Select a masking mode from the Export video masking dialog to set your privacy area.



- **Static masking**: Masks privacy areas set up for a specific location for a set period of time. Up to 16 privacy areas can be set, and a different application time can be set for each area.
- **Linear path masking**: Sets specific locations as privacy areas, and mask the areas along the linear path that connects all of them.
- **Mouse track masking**: Masks along the path of the freely moved mouse by clicking privacy areas playing the video.
- G Al auto masking: Al camera masks all objects selected based on the search conditions (people, face, vehicle, and vehicle number).
- By clicking Color
 , you can select the masking type you want. By clicking , you can preview it.

5. The privacy area you set is added to the list of masked areas. Set the time range to apply the privacy area, and then click the **Apply** button.



- Click 🔟 to delete a privacy area you set.
- Click 💿 to show or hide a privacy area.
- 6. Set the time range of the recorded video to be exported.

◀ 20	120-07-22 🕨		09:46:14	▶ 1x -			
		06:00:00	9 12	15	18:00:00	(
Time ra	nge 06:00:00	: ~ 18:00:00					
Export v	video in high resolu	tion 🔽 Enable	Enable SEC file encryption	Enable			
Path	C∶₩Users₩Public∜	#Documents₩Wise	net₩SSM₩Record				
				Export	Cancel		

- 7. To export videos in high definition, check Enable of Export video in high resolution.
 - Videos will be exported at low resolution if this option is not used.
 - This setting will only work when low resolution and high resolution videos are being recorded simultaneously.
- 8. If you want to use the encryption to a SEC file, check **Enable** of **Enable SEC file encryption** and set a password.
- 9. Set the Path to store the export files.
- **10.** Click the **Export** button.

Setting the Linear path masking

- 1. Select the video tile to export.
- 2. Click the 🚺 button at the top right of the timeline.
- 3. Click Export video masking.
- 4. Select -
- 5. Play the video, and pause it when the object to mask appears on the screen.
- 6. Set a rectangular area by dragging the mouse so that the object to mask is hidden. If the rectangular area is set for the first time, it is added to the list of masked areas.



7. Play the video again, and pause it where it is needed to modify the location or size of the masked area along the path of the moving object.



- Click the rectangular area set for the first time and drop it in a location where modification is needed to modify the location or size of the masked area.
 Repeat this step as many time as necessary to set the masked area.
- 9. When the setup is complete, play the video of the masked area to check or change the setup.

Setting the Mouse track masking

- 1. Select the video tile to export.
- 2. Click the 🚺 button at the top right of the timeline.
- 3. Click Export video masking.
- 4. Select 📆
- 5. Play the video, and pause it when the object to mask appears on the screen.
- 6. Set a rectangular area by dragging the mouse so that the object to mask is hidden. If the rectangular area is set for the first time, it is added to the list of masked areas.



Click the x1/2 button to select the playback speed.
 Click the button in the rectangular area to play the video.

- 8. When the video plays, click the rectangular area and drag the mouse along the moving object.
- 9. Drop it in a location where you want to end the masking, and click the (1) button inside the rectangular area.

The video will stop and the masking will be terminated.



10. When the setup is complete, play the video of the masked area to check or change the setup.

Export One-Time Schedule

You can export the recorded videos to a file on a schedule after setting the export schedule. Export one-time schedule is performed only once.

Use Add Schedule Mode

You can set Export one-time schedule.

- 1. Switch to Playback mode.
- 2. Select the video tile to export.
- 3. Click the o button at the top right of the timeline.



4. Click Export one-time schedule.



5. Select Add schedule mode in the Export one-time schedule dialog box.

Export one-time s	Export one-time schedule				
 Add schedule 	Add schedule mode Schedule list mode				
Schedule	11/22/2019 - 00:00:00 ;	:			
No,	Camera	Storage			
1	QND-6070R	Remote			
2	XNV-6081Z	Remote			
3	PND-A9081RV_CH001	Remote			
4	PND-A9081RV_CH002	Bernote			



NOTE

In Live mode, camera list is not displayed.

- Monitor
- 6. Set **Schedule** to export. You can set it by clicking the arrow or manually inputting the date & time in the scroll box.

Export one-time so	Export one-time schedule				
Add schedule	Add schedule mode Schedule list mode				
Schedule 1	Schedule 11/22/2019 - 00:00:00 -				
No,	Camera	Storage			
1	QND-6070R	Remote			
2	XNV-6081Z	Remote			
3	PND-A9081RV_CH001	Remote			
4	PND-A9081RV_CH002	Remote			

7. Select one or more desired cameras. You can schedule for simultaneous export for multiple camera videos.

Event one time schedule			×			
Export one-time schedule ×						
💿 Add schedule mode 🛛 🜑 Schedule list mode						
Schedule 11/22/2019 • 00:00:00 ‡						
🖃 No, Camera		Storage				
2 0ND-6070		Remote Remote	_			
	2 1RV_CH001	Remote				
	1RV_CH002	Remote				
5 XNF-8010		Remote				
6 XND-8081	VZ	Remote				
7 XNP-6320		Remote				
Time range 2019/11/22 10:48:		2019/11/22 15:36:06				
Path	C:₩Users₩Public₩Do	/Public₩Documents₩Wisenet₩SSM₩Re				
File format • AVI • SEC						
Export video in high resolution						
Enable SEC file encryption						
Password						
Confirm Password						
	Add	Cancel				

- 8. Set the time range of the recorded video to be exported. Use the time tooltip on the timeline to change time settings. For more information, please refer to <u>Set Time Interval</u>.
- 9. Set the path to store the export files.
- 10. Set File format.

11. To export videos in high definition, check the **Export video in high resolution** box.

- Videos will be exported at low resolution if this option is not used.
- This setting will only work when low resolution and high resolution videos are being recorded simultaneously.

12. If you want to use the encryption to a SEC file, select Enable SEC file encryption.

13. Click the Add button. Schedule list mode is enabled and you can check the schedule added.

Export one-time schedule						
Add schedule mode Schedule list mode						
Schedule	11/22/2019 🚽 00:00:00					
No.	Camera	Storage	Start time	End time		
1	QND-6070R(192,168,219,149)	C:₩Users₩P···	2019-11-22 10:48:45 DST: 0	2019-11-		

Use Schedule List Mode

When you select **Schedule list mode** in the **Export one-time schedule** dialog box, you can check the all schedule lists. You can check whether the scheduled export is completed in **Status** column of the schedule table, and you can also modify or delete the schedule.

Export one-time sched	lule						
Add schedule mode Schedule list mode							
Schedule 11/22	2/2019 🝷 0	0:00:00 🗘					
t time	End time		Schedule	Status			
9-11-22 10:48:45 DST	: 0 2019-11-	22 15:36:06 DST: 0	11/22/2019 00:00:00	Export compl···			
Export Schedule

You can automatically export the recorded videos of previous date stored in **SSM Core Server** every day at a specified time on the next date. You can also check the status of the scheduled export that you have already set.



NOTE

For **Export video**, **Export video masking**, and **Export one-time schedule** in the Monitoring menu, you can export the recorded videos of the camera to files just once.

Set up Schedule

You can schedule to automatically export the recorded videos from the previous date that its device is registered in **SSM Core Server** every day at a specified time on the next date.

- 1. Click the 🚺 button at the top right of the timeline.
- 2. Click Export schedule.



3. Select the desired device from the **Device list**.

Ехро	ort schedu	le					
Devi	ce list						
	Use	Name	IP address	Schedule	Repeat	Progress	Status
		SSM Server	172.30.1.48:4510				
		XNP-6320	172.30.1.6	Schedule Always	\checkmark		
		XNF-8010R	172.30.1.5	Schedule Always	\checkmark		
		XND-8081VZ	172.30.1.4	Schedule Always	\checkmark		
		XND-6081FZ	172.30.1.3	Schedule Always	\checkmark		

4. Select a schedule in the drop-down list.

Exp	ort schedu	le					
Dev	ice list						
	Use	Name	IP address	Schedule	Repeat	Progress	Status
		SSM Server	172.30.1.48:4510	-			
	\checkmark	XNP-6320	172.30.1.6	Schedule Always 🛛 👻	\checkmark		
		XNF-8010R	172.30.1.5	Schedule Always	\checkmark		
		XND-8081VZ	172.30.1.4	Schedule None	\checkmark		
		XND-6081FZ	172.30.1.3	Scriedule Always	\checkmark		

5. Configure the repeat feature of export. If **Repeat** is unchecked, export is executed only once and the feature will be disabled.

Exp	ort schedu	le					
Dev	vice list						
	Use	Name	IP address	Schedule	Repeat	Progress	Status
		SSM Server	172.30.1.48:4510				
	\checkmark	XNP-6320	172.30.1.6	Schedule Always			
		XNF-8010R	172.30.1.5	Schedule Always	\checkmark		
		XND-8081VZ	172.30.1.4	Schedule Always	\checkmark		
		XND-6081FZ	172.30.1.3	Schedule Always	\checkmark		

6. Check the Enable box for Scheduled export.

xport schedul	e							l ,	
vevice list							Scheduled export informati	on	
🔳 Use	Name	IP address	Schedule	Repeat	Progress	Status	Scheduled export	🔽 Enable	
	SSM Server	172.30.1.48:4510					Edit schedule	Edit	
	XNP-6320	172.30.1.6	Schedule Always						
	XNF-8010R	172.30.1.5	Schedule Always				Start time		12:00:00
	XND-8081VZ	172.30.1.4	Schedule Always	V			File format	SEC AVI	
	XND-6081FZ	172.30.1.3	Schedule Always					SEC AVI	
							Export video in high resolution	Enable	
							Enable SEC file encryption	Enable	
							Password		
							Confirm Password		
							Digital signature	Enable	
							Event Type	Continuous	V Alarm input
								Motion	Video loss
								🔽 IVA (Intelligent	: Video Analytics)
								Audio detection	n 🔽 Manual
							Backup Path	C:\Users\Public\D	ocuments\V
							Set Auto Delete		
							Minimum free space		
							File retention period	Enable 10	Day
							Overwrite	Enable	
							oreninte.		
				Apply	Close				

- 7. Set the **Start time** for **Scheduled export**. You can either click the button on the scroll box or input the time in the cell.
- 8. Set the File format for export.
 - SEC: This is a file format for Hanwha Techwin videos. When you run an EXE file with the same name as the SEC file, you can play the exported video in **Backup viewer**, which is a video playback program for SEC files only.
 - AVI: You can play the exported video in normal video playback programs.
- 9. To encrypt an SEC file, check the **Enable** box for **Enable SEC file encryption**.



NOTE

- When you play the exported file in **Backup viewer**, you must enter the password before playing.
- If you lose your password, then you will not be able to play the exported file.

- 10. Select the **Event type** of the video for the scheduled export.
- 11. Set the path to store the files for scheduled export.
- 12. If you want to automatically delete the videos after the scheduled export, specify the Set Auto Delete.
 - Minimum free space: You can set the minimum free space on the disk where the exported videos are saved. Once the free space on the disk reaches the specified minimum free space, you can no longer export videos to the disk.
 - File retention period: You can set the exported video file to be automatically deleted after the set period.
 - **Overwrite**: When there is no space available on the disk, you can set it to overwrite the previously exported file.

13. Click the Apply button.

Check Backup Status

You can check the scheduled export status by device in the Status column in the Device list.

Ехр	ort schedu	le					
Dev	rice list						
	🔲 Use	Name	IP address	Schedule	Repeat	Progress	Status
		SSM Server	172.30.1.48:4510				
	\checkmark	XNP-6320	172.30.1.6	Schedule Always	\checkmark	Completed	Export complete
		XNF-8010R	172.30.1.5	Schedule Always	\checkmark		
		XND-8081VZ	172.30.1.4	Schedule Always	\checkmark		
		XND-6081FZ	172.30.1.3	Schedule Always	\checkmark		

Edit Schedule

You can add, edit, or delete schedules to be exported.

- 1. Click the 🚺 button at the top right of the timeline.
- 2. Click Export schedule.



3. Click the Edit button of Edit schedule from the Export schedule dialog box.

Export	schedule	e								×
Device I	list							Scheduled export informati	ion	
	Use	Name	IP address	Schedule	Repeat	Progress	Status	Scheduled export	V Enable	
		SSM Server	172.30.1.48:4510					Edit schedule	Edit	
8	2	XNP-6320	172.30.1.6	Schedule Always	V					
		XNF-8010R	172.30.1.5	Schedule Always	V			Start time		12:00:00
		XND-8081VZ	172.30.1.4	Schedule Always	V					
		XND-6081FZ	172.30.1.3	Schedule Always	V			File format	SEC AVI	
								Export video in high resolution	🔽 Enable	
								Enable SEC file encryption	Enable	
								Password		
								Confirm Password		

4. Click the Add button under User schedule.

Edit schedule																				×
Shared schedule	Schedule	inform	ation																	
Name Schedule1	Name		Use	rSche	dule 1															
Schedule1	Descriptio		Della																	
	Cycle 0 1		Dail <u>:</u> 3	y 4	5	; 7	8	9	10				14	15	16	18	19	20		23
			, ,	4			Ů	9 		<u> </u>		13	14	15	10	10	13	20		20
									Set			Clear				 			 	
								-		_	_		-							
User schedule																				
Name																				
UserSchedule1																				
Add Delete										Ap	ply									



NOTE

Shared schedule can be configured in Configuration > System > Schedule.

- 5. Enter Name and Description in Schedule information.
- 6. Select Cycle for the schedule.
 - Daily: Sets the schedule on a daily basis.
 - Weekly: Sets the schedule on a weekly basis.
- 7. Select a time to schedule from the time cell under cycle and click the **Set** button.
 - To clear the schedule, select the area to clear and click the **Clear** button.
 - Time cells in multiple sections can be selected by using the [**Ctrl**] key or dragging the mouse.
 - The **Min setting** dialog box appears when the selected time cell is double-clicked. Set the minutes of **Start time** and **End time** and click the **OK** button.

Min setting				×
		h	min	
Start time			0	
End time			59	
	OK		Cancel	

8. Click the **Apply** button.

Use Bookmark

You can bookmark the video section of interest while in Playback mode. You can also play or edit the bookmark added.



NOTE

- Bookmark is also available in the **Advanced search** menu.
- You can bookmark only when you recorded the camera video in the SSM Core Server.

Add Bookmark

- 1. Switch to Playback mode.
- 2. Select the video tile to add as a bookmark.
- 3. Click the 📕 button at the top right of the timeline.
- 4. Enter Name and Description in the Bookmark dialog box.

Bookmark		×
Name		
Description		
Camera	XNP-6320 (192, 168, 219, 209)	
Start time	2019/11/22 10:48:46 :	•
End time	2019/11/22 17:39:16 :	* *
Enable evidence	e locking	
	Apply Cancel	

5. Set **Start time** and **End time** of the bookmark. For time settings, you can enter a time value either by clicking and moving the time tooltip on the timeline to the left or right or double-clicking the tooltip. For more information, please refer to <u>Set Time Interval</u>.



- 6. To prevent the video recordings within the bookmarked section from being deleted when the video is overwritten, check the **Enable evidence locking** box.
- 7. Click the Apply button. You can check the bookmarks you added in Bookmark tab.

Play Bookmark

1. Click the **Bookmark** tab at the bottom left of the menu page.



2. Select the desired bookmark.



3. Click the button to the right of the selected bookmark. The bookmarked recorded video is played.



Modify Bookmark

1. Click the **Bookmark** tab at the bottom left of the menu page.



2. Select the desired bookmark.



3. Click the 🖉 button to the right of the selected bookmark.



 Modify the desired configurations in the Bookmark dialog box. Use the time tooltip on the timeline for bookmark time settings. For more information, please refer to <u>Set Time Interval</u>.

Bookmark		×
Name	bookmark1	
Description		
Camera	XNP-6320 (192, 168, 219, 209)	
Start time	2019/11/22 10:48:46	
End time	2019/11/22 17:39:16	
Enable evidence	locking	
	Apply Cancel	

5. Click the **Apply** button. You can check the information of the bookmark you modified in the bookmark tree.

Delete Bookmark

1. Click the **Bookmark** tab at the bottom left of the menu page.



2. Select the desired bookmark.



3. Click the 🛅 button to the right of the selected bookmark.



4. Click the Apply button.

Move to Advanced Search Menu

When you click the Q button on the time line, you can easily move to the **Advanced search** menu page without adding an **Advanced search** menu tab in the menu tab.

In the Monitoring menu playback mode, the recorded images of the camera are searched and played back, but in the **Advanced search** menu, various advanced search functions such as motion search or Intelligent Video Analytics (IVA) are available. For more information, please refer to <u>Search the</u> <u>Recorded Videos</u>.

Set Time Interval

You can set the start time and end time when exporting bookmarks or recorded videos to a file or using the search menu.

- You can modify time values by clicking and moving the time tooltip on the timeline to the left or right or double-clicking the tooltip.
- When you can't find the time tooltip, right-click on the timeline and click **Reset time range**. Then, the time tooltip appears on the timeline.



NOTE

You can set the desired time interval when using bookmarks or search menu.

Control Video Wall

SSM can be linked with **SSM-VM** to monitor high-quality videos from the network devices in Video wall. You can also control the settings of Video wall set by **SSM-VM** (Virtual Matrix) in **SSM Console Client** easily.



NOTE

- To control the Video wall in **SSM Console Client**, **SSM-VM** must be installed.
- You can edit the information of the Video wall set by **SSM-VM** in **SSM Console Client**, but you can't save the edited information in **SSM-VM** automatically. To save the changed setting information, change the Video wall settings in **SSM-VM**.

Open the VM Menu

Click the **H** button from the Function Buttons at the top right of the Monitoring menu page. The VM menu appears in the Monitoring menu.



Learn about Screen Configuration

VM menu screen is configured as follows:

W Monitoring 1 +			🕲 user1 📑 🏛 🌣 🕕 🗕 🎞 🗙
	Video wall Control Center Vall layout vall layout vall layout vall layout vall layout vall layout vall vall vall vall vall value va	WISE NET	Wise net
▶ ■ X8N-6410084(192.168.219.100)	Source Monitor layout :	WISENET	W'ISENET
	 ■ 2020-05-07 ▶ 8. 9. 		
Camera Alarm output Layout PTZ 🔹 🗸 🕨	P	18:49	19:00 Live PLAYBACK

No.	Screen Configuration	Detailed Description on Functions
0	Video wall setup	You can select the video wall or wall mode.
2	Video wall	You can preview the selected Wall mode.
3	Monitor Layout	You can preview the layout of the selected monitor in the video wall.

Learn about Video Wall Setup



No.	Screen Configuration	Detailed Description on Functions	
0	Video wall	You can select the desired items from the Video wall list.	
0	Wall mode	You can select Wall layout, Wall sequence, Wall spot, or Direct Wall Display from the Wall mode list.	
8	OSD	You can display items such as Date & Time, Camera name, Display event, IVA rules, etc. on the video tile of the video wall.	
4	Detailed options	 You can set and configure the selected wall mode. When you select the wall mode as Wall layout, you can select the desired items from the Wall layout list. When you select the wall mode as Wall sequence, you can select the desired items from the Wall sequence list. When you select the wall mode as Wall spot, you can select the desired items from the Wall spot list. 	

Learn about Video Wall



No.	Screen Configuration	Detailed Description on Functions
0	Name	You can check the name of the Wall mode.
2	Preview	You can preview the selected Wall mode.
0	Return to previous Wall Spot mode	You can display as the Video wall mode before it was changed to the Wall spot mode.
4	Selected monitor screen import	You can import the screen of the selected monitor to the video window of SSM Console Client .
6	Startup option	You can start or stop the selected Wall mode.

Learn about Monitor Layout



No.	Screen Configuration	Detailed Description on Functions
0	Name	You can check the name of the monitor layout.
2	Preview	You can preview the layout of the selected monitor in the video wall.
8	Camera information	You can check the camera information of the selected tiles.
4	Clear event	You can remove events displayed on the selected tiles.
6	Clear all events	You can remove events from all the tiles.
6	Change tile pattern	You can change the layout pattern of the monitor.
7	Remove the selected tile	You can remove the camera videos from the selected tiles.
8	Remove all tiles	You can remove the camera videos from all the tiles.
9	Load last settings	You can revert the edited monitor layout to the monitor layout set by SSM-VM.

Set as Wall Layout

You can set the Video wall for the Wall layout mode.

1. Select the desired Video wall from the Video wall list.



2. Select the Wall layout from the Wall mode list.

Video wall	Control Center	r		~ 05D
Wall layout	-	wall layout		-
Wall sequer	Wall layout Wall sequence		E l	E) E
Wall spot Direct wall display				

3. Select the desired Wall layout from the Detailed options of the wall layout.

Video wall Control Cente			- 05D
Wall layout	-	new wall layout	-
Last wall layout : new wall la		new wall layout wall layout	

4. The selected wall layout is displayed in the Video wall, and the changed wall layout is also displayed on the monitor of the video wall (VMD VIEWER).

Wall layou	t –	wall layout		-
Last wall lay	Last wall layout : wall layout			Ð 🗗
	Camera Group [Row:2 Colum:21			



NOTE

You can set various wall layouts in **SSM Console Client**. For more information, please refer to the Set Edit Monitor Layout.

Set as Wall Sequence

You can set the video wall for the Wall sequence mode. When you set the wall sequence, you can switch among multiple wall layouts sequentially in the Video wall to monitor videos from cameras. For more information, please refer to the SSM-VM Product Instruction Manual.

1. Select the desired Video wall from the Video wall list.



2. Select the Wall sequence from the Wall mode list.

Video wall Control Center		DSD
Wall layout 👻	wall layout	•
Wall layout Wall sequence	E 5 E , (₽
Wall spot Direct wall display		

3. Select the desired Wall sequence from the Detailed options of the wall sequence.

Video wall	Control Center		- 05D
Wall sequence 🚽		New Wall Sequence	-
Wall sequen	ce : New Wall S	New Wall Sequence Wall Sequence	

4. To run the wall sequence, click the EB button. The wall sequence is played on the monitor (VMD VIEWER) of the video wall.



NOTE

To stop the wall sequence, click the 🔢 button.

Set as Wall Spot

You can set the video wall for the Wall spot mode. When you set the Wall spot mode, you can set the video wall to change to the specified wall layout when an event occurs on a specific camera. For more information, please refer to the SSM-VM Product Instruction Manual.

1. Select the desired Video wall from the Video wall list.



2. Select the Wall spot from the Wall mode list.

Video wall Control Cente	r	- 051
Wall layout 👻	wall layout	
Wall layout Wall sequence		E5 E9 E6
Wall spot Direct wall display		

3. Select the desired Wall spot from the Detailed options of the wall spot.

Video wall	Control Center		~ 05D
Wall spot		New Wall Spot	-
		New Wall Spot Wall Spot	

4. To run the wall spot, click the button. The changed wall spot is started on the monitor (VMD VIEWER) of the video wall. When an event occurs on a specific camera as set in **SSM-VM**, the video wall changes to the wall layout set for the wall spot.



NOTE

- To stop the wall spot, click the 🔢 button.
- To return to the previous layout after the wall spot has run, click the 👪 button.

Set Direct Wall Display

Direct Wall Display is a function that allows users to play video wall sequences simply by selecting multiple cameras and then clicking the button.



NOTE

- Direct Wall Display is a one-time function, so the setting value is not saved in SSM Console Client.
- The wall layout is displayed based on the last layout set in the Video wall.
- 1. Select the desired Video wall from the Video wall list.



2. Select the Direct Wall Display from the Wall mode list.

Video wall	Control Cente	r		05D
Wall layout	-	wall layout		•
Wall layout Wall sequence		:	Es Ei	₽
Wall spot Direct wall display				

 Select the desired camera from the Camera tab, and then drag and drop it into the Direct Wall Display window. Alternatively, you can select the tile videos in the video window, and then drag and drop them.



4. Set the dwell time of the video wall.



5. To start the Direct Wall Display, click the B button. The camera list set in the Video wall layout will change by dwell time order.



NOTE

- To stop the Direct Wall Display, click the 🖽 button.
- To select multiple cameras from the Camera tab, you can select only the desired cameras by pressing the **Ctrl** or **Shift** key.
- You can click "SSM Server" at the top of the tree to set all cameras registered in the server at once.
- To change the camera order in the Camera list, select the desired camera and then drag and drop it to the new position to change the camera position.
- To delete one camera from the **Direct Wall Display** window, you can press the **Delete** key to delete it.
- To delete all the cameras from the **Direct Wall Display** window, you can click the **m** button to delete all of them.

Edit Monitor Layout

You can easily edit the monitor layout of the video wall in **SSM Console Client**. When you edit the monitor layout, your edits are immediately reflected on the monitor (VMD VIEWER) of the Video wall. However, they are not immediately reflected when the Wall mode is running.

- Change to Shared Layout
- Monitor Camera Videos in the Camera Tab
- Monitor Tile Videos in the Video Window
- Monitor Map Layout Icons



Change to Shared Layout

- 1. Select the Layout tab from the tree tab on the Monitoring menu page.
- 2. Select the desired layout from the Shared Layout list, and then drag and drop it into the **Monitor Layout** window. The monitor of the video wall changes to the selected layout.

Monitor Camera Videos in the Camera Tab

- 1. Select the Camera tab from the tree tab on the Monitoring menu page.
- 2. Select the desired camera from the Camera list, and then drag and drop it into the **Monitor** Layout window. The videos of the selected camera appear on the monitor of the video wall.

Monitor Tile Videos in the Video Window

- 1. Select the videos of the desired tiles in the Video window on the **Monitoring** menu page.
- 2. Drag and drop the selected tiles into the **Monitor Layout** window. The videos of the selected tiles appear on the monitor of the video wall.

Monitor Map Layout Icons

- 1. Select the Layout tab from the tree tab on the Monitoring menu page.
- 2. Select the desired map layout and double-click it.
- 3. Select the icon in the map layout.
- 4. Drag and drop the selected icon into the **Monitor Layout** window. The videos of the selected icon appear on the monitor of the video wall.

Show OSD in Video Wall

You can display items such as Date & Time, Camera name, Display event, IVA rules, etc. on the video tile of the Video wall. For more information, please refer to the <u>Set Console Client</u> > <u>Set Display</u> > <u>OSD text</u>.

🔄 Show OSD	
OSD On -	
Date/Time	Information icon
🗹 Camera name	IVA rules
Show IP	
Enable Devices'	Default Name
Display event	10 s 👻
Date/Time	
Date format	2019-11-22 🗸
Time format	18:40:16
Text/Icon size	
Font size	13 🗘
Icon size	1 🗘
Map layout tile size	
Size	1 -
ОК	Cancel

Search the Recorded Videos

You can search and play the event logs that occurred on your devices. Also, by connecting to an Al camera, you can play videos or search for images in various conditions such as people, face, vehicle, vehicle number.



NOTE

To use AI search when AI cameras have been linked, you must configure the following settings in the camera web viewer.

- WEBVIEWER > Analytics > Object detection > Enable object detection
- WEBVIEWER > Analytics > IVA > Enable IVA

Open the Search Menu Page

- 1. Run SSM Console Client.
- 2. Enter your ID and password in the Login dialog box, and click the Login button.
- Click the [+] button at the top left of the program, and then select Search in the Add tab dialog box.



Searching Events

I

You can search and play the event logs that occurred on your devices. You can also export the searched event lists to a file.

vent search		\$			2			🖻 🖸 🖬	
		Check 3	No.	7 Status	V Type V	Device 🖓	7 User ♥	Occurred (*	
AII			1	New	Disconnect cam	XNP-6320(172	-	2021-12-0	
				New	Disconnect cam	XNF-8010R(172		2021-12-0	MUCONICT
				New	Disconnect cam	XND-8081VZ(1		2021-12-0	WISE NET
2021-12-01 00:00:00 ~								2021-12-0	
2021-12-01 14:45:00					Motion detection	XNP-6320(172		2021-12-0	
								2021-12-0	
				New	Motion detection	XNP-6320(172		2021-12-0	
MI				New	Stop recording	SSM Server(172		2021-12-0	
				New	Failed to connect.	XND-6081FZ(17		2021-12-0	
Search								2021-12-0	3 6 9 12 15 18 21 L
				New	Failed to connect.	XND-6081FZ(17		2021-12-0	
	I I			New	Start recording	SSM Server(172		2021-12-0	Linked Camera
				New	Stop recording	SSM Server(172		2021-12-0	User:
				New	Stop recording	SSM Server(172		2021-12-0	Status :
						XNP-6320(172		2021-12-0	
								2021-12-0	Alarm type
				New	Motion detection	XNP-6320(172		2021-12-0	Note History
				New	Start recording	SSM Server(172		2021-12-0	
				New	User login	SSM Server(172	admin(172.30.1	2021-12-0	Confirme
			20	New	Start recording	SSM Server(172		2021-12-0	
				New	Failed to connect.	XND-6081FZ(17		2021-12-0	
1				New	Failed to conct.	XND-6081FZ(17		2021-12-0	
			23	New	Failed to connect.	XND-6081FZ(17		2021-12-0 -	

Learn about the Event Search Screen Configuration

No.	Screen Configuration	Detailed Description on Functions
0	Tree tab	You can see the list of camera, alarm input, alarm output, and POS.
2	Search options	You can search events by filtering by date or event type.
3	Event list	You can check the searched event results.
4	Event details	You can check the details of the selected events in the event list or manage the status of the events.

Search Event Logs

I

You can search the event logs or play the video recorded at the time of event occurrence.

- 1. Open the **Search** menu page.
- 2. Click the ••• button to select Event search.

Monitoring 1 Search	+				🕲 user2 📑 🛱 🌣 🖲 _ 🗆 🗙
Event search Device All	Event search Object Search	s ⊽ Type ⊽	Device 7 Use	r v Occurred (PC	
All Occurred (PC) 2021-12-01 00:00:00 ~ 2021-12-01 14:45:00 Event Type		J			WISE NET
					Linkad Canada Usar I Satar : Alam Sysa Nede Homory Continued

3. Click the **Device** to select the desired camera from the **Camera** tab.



• You can also select the camera you want in the Alarm output, Alarm input, or POS tab.

4. Select the base time at the moment when an event occurred.

W Monitoring 1	Search	+	© user2 📑 🛱 🌣 00 _ □ ×
Event search Device All		Control (PC Occurred (PC Occurred (PC Occurred (PC Occurred (PC Occurred (PC Oc	
Occurred (PC) 2021-12-01 00:00:00 ~ 2021-12-01 14:45:00		0ccurred (P - 0ccurred (PC) 0ccurred (PArket 00:00:00 2 ~	W'ISENET
Event Type All Sawth		2021-12-01 • T4:45:00 : Taday This week	

- Occurred (PC): You can search for the time when an event occurred based on the PC time.
- **Occurred (Device)**: You can search for the time when an event occurred based on the device time.
- **Confirmed time**: You can search for the search time based on the confirmed time of the event. Confirmed time refers to the time when you confirmed through <u>Confirm Events</u>.
- 5. Set Start time and End time for search. Click the arrow in the date drop-down list to select the date in the calendar that appears, and click the up/down arrows in the time scroll box to set the time. You may also click the cell to enter the values directly.

W Monitoring 1	Search	+		© user2 📑 🛱 🌣 🛈 _ □ ×
Event search Device All		Check \overline{v} No, \overline{v} Status \overline{v} Type \overline{v} Device \overline{v} User	© ₫ v Occurred (PC	
Occurred (PC) 2021-12-01 00:00:00 ~ 2021-12-01 14:45:00		0ccurred (P - 3021-12-01 - 00:00 : ~		W'ISE NET
Event Type All		2221-12-01 • 14:45:00 : Today This week		

6. If you want to search for specific events only, click the Event Type to select the event items to filter.If you click the button to the left of some events, you can select the detailed events of that event.



7. Click the **Search** button. The search results are displayed.

Monitoring 1 Search	+							🕲 user2 📑 🛱 🌣 🛈 _ 🗆 🗙
Event search ····							- 🖸 🗇	
Device				▼ Type ▼	ounce .	User 🔻	Occurred (+	
All		1	New		XNP-6320(172	•	2021-12-0	
			New		XNF-8010R[172		2021-12-0	WISE NET
			New		XND-8081VZ(1		2021-12-0	VISCICI
2021-12-01 00:00:00 ~							2021-12-0	
2021-12-01 14:45:00							2021-12-0	
							2021-12-0	
All					XNP-6320(172		2021-12-0	
					SSM Server(172		2021-12-0	
Search			New	Failed to connect.			2021-12-0	
June 1							2021-12-0	3 6 9 12 15 18 21 L
			New	Failed to connect.			2021-12-0	: P
			New	Start recording	SSM Server(172		2021-12-0	Linked Camera
			New	Stop recording	SSM Server(172		2021-12-0	User:
			New	Stop recording	SSM Server(172		2021-12-0	Status :
							2021-12-0	
							2021-12-0	Alarm type
							2021-12-0	Note History
			New	Start recording	SSM Server(172		2021-12-0	
			New	User login	SSM Server(172	admin(172.30.1	2021-12-0	Confirmed
			New	Start recording	SSM Server(172		2021-12-0	
			New	Failed to connect.	XND-6081FZ(17		2021-12-0	
			New	Failed to connect.	XND-6081FZ(17		2021-12-0	
			New	Failed to connect.	XND-6081FZ(17		2021-12-0 -	
	4						•	
							Total: 516	

8. If you double-click the event you want to check in the Event list, then the video at the time of the event occurrence is played in the event details.



NOTE

A recorded video is only played in the Event details when there is the recorded video at the time of event occurrence.

Confirm Events

When you select the event you want to confirm in the event search list, you can play the recorded video at the time of the event occurrence. You can manage the event status after monitoring the event video.

Monitoring 1	Search	+							🔒 user2 🔒	â ≎ 0 _ □>
Event search								· 🖸 🖬	XNF-8010R	
		Check 7		Status		Device 7		Occurred (*		No.
All				New	Disconnect cam	XNP-6320(172		2021-12-0	35	2.1
				New	Disconnect cam	XNF-8010R[172		2021-12-0	1	100
			3	New	Disconnect cam	XND-8081VZ(1	-	2021-12-0		11/1
2021-12-01 00:00:00 ~			4	New	Intrusion	XNF-8010R(172		2021-12-0		and the
2021-12-01 14:45:00										15. 1 4 1
										21/
						XNP-6320(172				
				New	Stop recording	SSM Server(172		2021-12-0	🔫 🏓 🖬	
				New	Failed to connect	XND-6081FZ(17		2021-12-0	14:45:3	
									6 9 12 1 5	
				New	Failed to connect.	XND-6081FZ(17		2021-12-0	Linked Camera	P
				New	Start recording	SSM Server(172.		2021-12-0		XNF-8010R -
				New	Stop recording	SSM Server(172		2021-12-0	User -	
				New	Stop recording	SSM Server(172		2021-12-0		
					Motion detection				Status: New	
									Alarm type	Normal -
						XNP-6320(172			Note	
				New	Start recording	SSM Server(172.		2021-12-0		
				New	User login	SSM Server(172.	admin(172.30.1.	2021-12-0		
				New	Start recording	SSM Server(172.		2021-12-0	<u> </u>	
				New	Failed to connect.	XND-6081FZ(17		2021-12-0		
				New	Failed to connect	XND-6081FZ(17		2021-12-0		
				New	Failed to connect	XND-6081FZ(17		2021-12-0 -		
		<								

- 1. Open the Search menu page.
- 2. Click the ••• button to select Event search.
- 3. Select the desired camera, date and time range, and event type, and then search the event logs. The event list appears.
- 4. Double-click the event you want to confirm in the event list. The video recorded at the time of the event occurrence is played in the event details to the right of the page.
- 5. Select the camera connected to the video of the occurred event.
- 6. Set Alarm type after checking the event video.

Alarm type: Normal, Abnormal, Others

- 7. Enter the event status values in **Note**.
- 8. Click the Confirmed button.

Q

NOTE

• When you click the **History** button, you can confirm the status and record of the event. In case you have entered different event actions for each user on the same event, you can confirm the event record through the event history.

Example: Suppose when the same event occurs, User A judges it as an intruder and writes the intrusion route in the action details. On the other hand, User B inputs an additional description and closes the situation. Details of this input process can be confirmed via History.

- The recorded video is played only when the camera video at the time of event occurrence is recorded.
- You cannot play the recorded videos from one camera on several menus at the same time.

Example: Recorded videos from Camera A cannot be played in the **Instant viewer** and **Search** menu pages at the same time.

History						×
T						
No.	Status	Туре	Device	User	Occurred (PC)	Confirmed time
1	Confirmed			user2	2019-11-22 19:	2019-11-22 19
2	New	Motion Detection	PND-A9081RV	user2	2019-11-22 19:	-
			Close			

Play Event Videos Sequentially

You can play and monitor multiple event videos sequentially.

- 1. Open the Search menu page.
- 2. Click the **•••** button to select **Event search**.
- 3. Select the desired camera, date and time range, and event type, and then search the event logs. The event list appears.



NOTE

- Sequential playback of event videos is available after performing "Search event logs."
- For more information about searching the event logs, please refer to Search Event Logs.
- 4. Select the events you want for sequential playback in the search results list.



NOTE

You must select at least two events to use sequential playback.

5. Click the **b**utton in the search options. The recorded videos of the selected events are played sequentially in the event details.



Export Event Logs to a File

You can export the searched event results to a file.

- 1. Open the Search menu page.
- 2. Click the **•••** button to select **Event search**.
- 3. Select the desired camera, date and time range, and event type, and then search the event logs. The event list appears.

For more information about searching the event logs, please refer to Search Event Logs.

4. Click the 🚺 button in the search options.



5. Set the path to store the log files in the **Export event log** dialog box.

Export event log						
Path	1					
	Export	Cancel	Close			
0%						

6. Click the Export button. Log files support CSV file format only.



AI Search

By connecting to an AI camera, you can play videos or search for images in various conditions such as people, face, vehicle, vehicle number. You can also export the searched results to a file.



Learn about the Al Search Screen Configuration

Number	Screen Configuration	Detailed Feature Explanation
0	Search Option	 You can set various search conditions, such as date, time, people, face, vehicle, vehicle number, etc. O: Undo selected search parameters and reselect search parameters. Image: Save selected search parameters. Image: You can select and apply a saved search condition list.
2	Search Results	 You can view the Search results. You can view search results with thumbnails. You can view search results on a list. You can designate flags on the search results. You can save search results as a. jpg file.
3	Search Results Detailed Information	Search results can be viewed as videos. Double-clicking the desired item from the search results will playback the video recording, and you can confirm the section on the time line at which the video recording is located. If you click the event list once, a static video image will be displayed in the event details.

Al Search

- 1. Open the **Search** menu page.
- 2. Click the we button and select **Object search**.

W Monitoring 1 Search	+	🛈 user2 📑 🛱 🌣 🔀 🗕 🗆 🗙
Object search ···· Camera None	Event search Object search	
Search period 2021-11-26 00:00:00 – 2021-11-26 23:59:59 Object ①		N'ISE NET
0 x x &		
Search		3 6 9 12 15 18 21 L
1		Camera -
		Occurred (Device) -
		Object properties -

- 3. Set the camera, date, and time range to search.
- 4. Select an object you want to search.
 - **Person**: You can filter by selecting gender, clothing (top/bottom) color, or whether they are carrying a bag.
 - Face: You can filter by selecting gender, age, or whether they are wearing glasses/a face mask.
 - Face recognition: You can register a face image and select Similarity as a search condition. See Face Recognition Search for detailed information.
 - Vehicle: You can filter by selecting type, color, manufacturer, model, license plate, or country.
 - Manufacturer, model, license plate, or country are supported on FFGroup devices.
 - If you have obtained ANPR license certification, the searched vehicle can be registered as a restricted vehicle.

5. Click the **Search** button. The search results are then displayed as thumbnails.



- Click on the 🗄 button to view the search results as a list. Hover the cursor over the list to view thumbnail images.
- 6. If you select the desired filter, you can check a list of search results.
 - Click the Sutton to remove selected filters and select new ones.
- 7. To view a search result, double-click the thumbnail or list item for the result. The selected video recording will playback, and you can confirm the section on the time line at which the video recording is located.

Save Search Parameters

- 1. Open the Search menu page.
- 2. Click the **•••** button and select **Object search**.
- 3. Set the camera, date, and time range to search.
- 4. Select an object you want to search.
 - **Person**: You can filter by selecting gender, clothing (top/bottom) color, or whether they are carrying a bag.
 - Face: You can filter by selecting gender, age, or whether they are wearing glasses/a face mask.
 - Face recognition: You can register a face image and select Similarity as a search condition. See Face Recognition Search for detailed information.
 - Vehicle: You can filter by selecting type, color, manufacturer, model, license plate, or country.
 - Manufacturer, model, license plate, or country are supported on FFGroup devices.
 - If you have obtained ANPR license certification, the searched vehicle can be registered as a restricted vehicle.
- 5. Click the **Search** button. The search results are then displayed as thumbnails.
 - Click on the 🗄 button to view the search results as a list. Hover the cursor over the list to view thumbnail images.
- 6. If you select the desired filter, you can check a list of search results.
 - Click the 💽 button to remove selected filters and select new ones.
- 7. Click the 📷 button to save the selected filters.
- 8. Select a name and click the **OK** button, and the list will be saved.
 - To check the list of saved search filters, click the 📻 button.



- If you double-click the desired saved filter search from the list, the saved search will be applied to the search window and you can start a new search.
- You can check the search filters by hovering the cursor over the list.
- To delete a list, select the desired list and click the 💼 button.

View Flagged List

- 1. Open the Search menu page.
- 2. Click the •••• button and select **Object search**.
- 3. Set the camera, date, and time range to search.
- 4. Select an object you want to search.
 - **Person**: You can filter by selecting gender, clothing (top/bottom) color, or whether they are carrying a bag.
 - Face: You can filter by selecting gender, age, or whether they are wearing glasses/a face mask.
 - Face recognition: You can register a face image and select Similarity as a search condition. See Face Recognition Search for detailed information.
 - Vehicle: You can filter by selecting type, color, manufacturer, model, license plate, or country.
 - Manufacturer, model, license plate, or country are supported on FFGroup devices.
 - If you have obtained ANPR license certification, the searched vehicle can be registered as a restricted vehicle.
- 5. Click the Search button. The search results are then displayed as thumbnails.
 - Click on the 🗄 button to view the search results as a list. Hover the cursor over the list to view thumbnail images.



NOTE

You can only set flags when viewing search results via thumbnails.

6. Hover the cursor over the desired image from the search results and click the 📕 button.



7. To view only flagged results, click the 📕 button.





NOTE

The flagged results will be deleted if you search again.

Search again with Bestshot

- 1. Open the **Search** menu page.
- 2. Click the **•••** button and select **Object search**.
- 3. Set the camera, date, and time range to search.
- 4. Select an object you want to search.
 - **Person**: You can filter by selecting gender, clothing (top/bottom) color, or whether they are carrying a bag.
 - Face: You can filter by selecting gender, age, or whether they are wearing glasses/a face mask.
 - Face recognition: You can register a face image and select Similarity as a search condition. See Face Recognition Search for detailed information.
 - Vehicle: You can filter by selecting type, color, manufacturer, model, license plate, or country.
 - Manufacturer, model, license plate, or country are supported on FFGroup devices.
 - If you have obtained ANPR license certification, the searched vehicle can be registered as a restricted vehicle.
- 5. Click the **Search** button. The search results are then displayed as thumbnails.
 - Click on the 🗄 button to view the search results as a list. Hover the cursor over the list to view thumbnail images.
- 6. Hover the cursor over the most satisfactory image from the search results and click the Q button.



- 7. Select the desired conditions, then click the **Search** button.
 - You can filter by adding other conditions to the selected BestShot conditions.



Face Recognition Search

Face recognition search is available only on devices authorized by a user.

- 1. Open the **Search** menu page.
- 2. Click the we button and select Object search.

W Monitoring 1 Search	+		🛈 user2 📑 🛱 🌣 🛈 _ 🗆 🗙
Object search ···· Carnera None	Event search Object search	C.	
Search period 2021-11-26 00:00:00 - 2021-11-26 23:59:59			W'ISE NET
Object 💽 ਨੂੰ [ਪ੍ਰ] ਪ੍ਰਿ, ਵਿਸ਼ੇ Search			
			Camera Occurred (Device)
			Object properties

- 3. Set the camera, date, and time range to search.
- 4. Select the Face recognition object.
- 5. Click Face.

A face image can be registered as a search condition. You can use face images registered from your storage device and perform search in the **Face library** tab.

W Nonitoring 1 Search	+	× 🗆 _ 0 🗢 🔒 t. 2000 Q
Object Search ···· Carnera P\$92-641084_CH008		
Search period 2021-11-29 07:01:39 ~ 2021-11-29 19:01:39		
01#a ⊙ (} [1] <mark>12</mark> ©∋		
Face recognition O		
Face	File Face library	
Similarity	FielPath Count	- Occanned (Device)
60 %		
Search		

 Click the we button from the File tab. Select an image to be uploaded and click the Upload button. Doing so will extract and display only the faces from the uploaded images. Click a desired face (up to 5 faces) to register it as the face to be searched.



7. To register a face image from storage devices as a search condition, select a desired face image from the Face library tab.

Output in mit demonstration Image: Constration of the image: Constration of	W Nontoring 1 Search	+	∞ we .a ê ≎ 0 _ □×
	Carnera P974-641084_CH008 Saach period 2021-11-20 10/01/20 ~ 2021-11-20 10/01/20 ~ 2021-01-20 ~ 2021-20-2		WISENET
	For Senters O'S		Aquerar Gooka

8. Set the face similarity.



- Click the O button to clear the selected search condition and select one again.
- 9. Click the Search button. The search results will be displayed as thumbnails.



10. Double-click a thumbnail to check the search result. The selected video recording will be played back, and the section of the video recording can be checked in the timeline.

Advanced Search the Recorded Videos

You can search the camera videos recorded in **SSM Core Server** to check the event with motion or the event passing by the virtual line on the video or coming in and out of the virtual area.



NOTE

- To search the recorded videos by date or event, you can check Playback mode in the Monitoring menu. For more information, please refer to <u>Search the Recorded Videos by Date</u> or <u>Search the Recorded Videos by Event</u>.
- Motion search and Smart search functions can be used on the recorded videos of one camera only.. You cannot use these functions to search multiple camera videos at the same time.
- Devices that do not support Motion search can use Thumbnail search.
- To use Smart search, all of the following conditions must be met:
 - If the camera setting is set to use IVA, or the camera does not support IVA, Motion detection is set instead of IVA;
 - Hanwha Techwin's camera is registered as SUNAPI protocol on SSM Core Server; and
 - The camera video must be recorded on SSM Core Server.

Open the Advanced Search Menu Page

- 1. Run SSM Console Client.
- 2. Enter your ID and password in the Login dialog box, and click the Login button.
- 3. Click the [+] button at the top left of the program, and then select Advanced search in the Add tab dialog box.



Thumbnail Search

Thumbnail search menu enables you to use Motion search and Thumbnail search.

- Motion search: It displays the thumbnails at the time of the motion detection event at the set search time interval.
- Thumbnail search: It displays the thumbnails at the set search time interval.

NOTE

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- Devices that support the motion detection will have Motion search activated in the search options.
- Devices that do not support Motion search can use Thumbnail search.

Learn about the Thumbnail Search Screen Configuration



No.	Screen Configuration Detailed Description on Functions					
0	Search options	 You can set the search conditions (e.g., area, thumbnails display time interval, etc.) for Motion search or Thumbnail search. Motion search: You can search a video recorded at the moment when a motion detection event occurred. This is only available in DVR. Select all: You can set the entire video on the video tile as a motion search area. This is only available in DVR. Deselect all: You can deselect all of the search areas set on the video tile. This is only available in DVR. Search time interval: You can perform either Motion search or Thumbnail search based on the time you have set. 				
2	Timeline	You can check the sections with recorded videos and set the time interval to search.				
3	Search results	When the search is complete, the search results are displayed as thumbnails.				

Search Motion

- 1. Open the Advanced search menu page.
- 2. Select the desired camera from the camera tree in the Camera tab.
- 3. Select Motion search from search options.



NOTE

If the selected camera does not support Motion search, then you cannot select Motion search.

 Set the date and time range to perform a Motion search in the timeline. Use the time tooltip on the timeline to change time settings. For more information, please refer to <u>Set Search Time</u> <u>Interval</u>.



NOTE

The time range for Motion search can be set up to 1 hour (60 minutes).

5. Set a search area on the video.



- Set search area: You can select a search area by clicking the cells of the area to be searched in the video tile or by clicking the top left cell of the search area and dragging to the bottom right.
- **Release selected area**: You can release the selection by clicking the selected cells once again. You may also deselect the area by dragging the mouse on the selected area.
- Set/Release the entire area: You can set or release the search area on the entire area with the Select all or Deselect all button.

6. Set the Search time interval. When no search time interval is set, the default value is applied.



- 7. Click the Search button. Search results are displayed as thumbnails.
- 8. Select the desired thumbnails in search results to check the search results. The video recorded at the moment when a motion detection event occurred is played.

Search Thumbnails

- 1. Open the Advanced search menu page.
- 2. Select the desired camera from the camera tree in the Camera tab.
- 3. Deselect the check box next to Motion search in search options.
- Set the date and time range to perform a Thumbnail search in the timeline. Use the time tooltip on the timeline to change time settings. For more information, please refer to <u>Set Search</u> <u>Time Interval</u>.



NOTE

The time range for Thumbnail search can be set up to 1 hour (60 minutes).

5. Set the Search time interval.

Motion search Selec		Search time interval	1 min 🛛 🔻	Search
---------------------	--	----------------------	-----------	--------

- 6. Click the Search button. Search results are displayed as thumbnails.
- 7. Select the desired thumbnails in search results to check the search results. The video recorded at the selected time of search is played.

Smart Search

You can search for the motion videos that match the conditions set for the recorded video at a specific time.

Learn about Virtual Area

Once a search area is set on the video, it detects the motions of specific conditions such as intrusion, enter, exit, appear (disappear), or loitering in the area.

Learn about Exclude Area

It sets the area where the motion of specific conditions will not be detected on the video.

Learn about Virtual Line

It detects the passing of an object based on the virtual line and direction set on the video.

Learn about the Smart Search Screen Configuration



No.	Screen Configuration	Detailed Description on Functions
		You can set the event search conditions for smart search.
		• 🔲 You can set the virtual area to search the motions of specific conditions.
0	Search options	 You can set the exclude area where the smart search won't be performed in virtual line or virtual area.
		• 🖊 You can set the virtual line to search the motions of specific conditions.
0	Timeline	You can check the sections with recorded videos and set the time interval to
		search.
8	Search results	Upon completion of the search, the search results are displayed as a list or thumbnails.

Search Virtual Areas

- 1. Open the Advanced search menu page.
- 2. Select the desired camera from the camera tree in the Camera tab.
- 3. In Search option, click the 🔲 button and set the search area. Click the 🔳 button and set the exclude area to set the area you do not want to search.
 - Set the area on the video by selecting vertices on the video.. You can set 3 to 11 vertices.
 - You can set up to 32 areas.
 - Right-click to complete the area settings.
- 4. When you set the area, the Virtual area dialog box appears. Set the event rules for detection, and then click the **Apply** button. Click the **Cancel** button to delete the area you have set.





NOTE

You can set several event rules in one area.

 Set the date and time range for the virtual area search in the timeline. Use the time tooltip on the timeline to change time settings. For more information, please refer to <u>Set Search Time</u> <u>Interval</u>.



NOTE

You can set the time range for smart search up to 24 hours.

6. Click the Search button. Search results are displayed in a list.



NOTE

Up to 500 search results are displayed per page, and you can use the \blacktriangleleft or \blacktriangleright button to move to another page.

The following search result processing options are available:



Location	Description
A	 You can change how search results are displayed. i displays the search results in a list. i displays the search results as thumbnails.
В	You can view the search results by setting a filter to only show videos related to specific events.
С	You can save the searched information as an Excel file.

7. Select the desired items in search results to check the search results. The video recorded at the moment when an event occurred is played.

Search Virtual Lines

- 1. Open the Advanced search menu page.
- 2. Select the desired camera from the camera tree in the Camera tab.
- 3. In Search option, click the 🖊 button and set a virtual line.
 - Set a virtual line on the video by pointing the mouse cursor on the video.
 - Right-click to complete the virtual line settings.
- 4. When you set a virtual line, the Virtual line dialog box appears. Set the Virtual line Direction option, and then click the Apply button. Click the Cancel button to delete the virtual line you have set.





NOTE

If you select both options of the Virtual line direction, you can detect all objects that pass in both directions on one virtual line.

 Set the date and time range for the virtual line search in the timeline. Use the time tooltip on the timeline to change time settings. For more information, please refer to <u>Set Search Time</u> <u>Interval</u>.



NOTE

You can set the time range for smart search up to 24 hours.

- 6. Click the Search button. Search results are displayed in a list.
- **7.** Select the desired items in search results to check the search results. The video recorded at the moment when an event occurred is played.

Set Search Time Interval

When you use the search functions, you can set the date and time range for the search on the timeline.



Location	Screen Configuration	Detailed Description on Functions
Α	Search date	You can select the date to search.
В	Search start time and end time	You can select search start time and end time.
B-1	Search start time	You can set the search start time by moving the time display tooltip to the left or right. If the tooltip of the search start time is moved to the left while the time interval is set to maximum searchable time, then the entire time interval will move.
B-2	Search end time	You can set the search end time by moving the time display tooltip to the left or right. If the tooltip of the search end time is moved to the right while the time interval is set to maximum searchable time, the entire time interval will move.

Search Audit Logs

You can search Audit logs from your device.

Open the Audit Log Search Menu Page

- 1. Run SSM Console Client.
- 2. Enter your ID and password in the Login dialog box, and click the Login button.
- 3. Click the [+] button at the top left of the program, and then select **Audit log search** in the **Add tab** dialog box.



Learn about the Audit Log Search Screen Configuration

udit log search	\$					2		Ø
	No	o. ⊽ Status	V Type V	Device 🔻	User ⊽	Occurred (PC)	7 Confirmed time ♥	Description V
	1	New	Start watching I	PNV-A8081R_C	admin(172.30.1	2021-12-01 15:	-	Start watching live video
021-12-01 00:00:00 ~	2	New	Stop watching li	XND-6081FZ(17	admin(172.30.1	2021-12-01 15:	-	Stop watching live video
021-12-01 15:40:00	3							
	4							
	5							
	6							
Search	· · 7							
	8							
	9							
	10							
	11							
	12							
	13							
	14	New	User login	SSM Server(172	admin(172.30.1	2021-12-01 15:		User login (Console)
	15	New	User logout	SSM Server(172	admin(172.30.1	2021-12-01 15:		User logout (Configuration)
	16	New	User logout	SSM Server(172	admin(172.30.1	2021-12-01 15:		User logout (Console)
	17	New	Connect camera	XNF-8010R(172		2021-12-01 14:		Connect camera
	18	New	Disconnect cam	XNF-8010R(172		2021-12-01 14:		Disconnect camera
	19	New	User login	SSM Server(172	admin(172.30.1	2021-12-01 14:		User login (Configuration)
	20	New	User login	SSM Server(172	admin(172.30.1	2021-12-01 14:		User login (Console)
	21	New	Connect camera	XND-6081FZ(17		2021-12-01 14:		Connect camera
4	22	New	Failed to connect	XND-6081FZ(17		021-12-01 14:		Failed to connect.(Camera)
	23	New	Failed to connect	XND-6081FZ(17		2021-12-01 14:		Failed to connect.(Camera)
	24	New	Connect device	ARN-16105(172		2021-12-01 14:		Connect device

No.	Screen Configuration	Detailed Description on Functions
0	Tree tab	Logs can be filtered by date or type for searching.
0	Search options	The column of the list can be configured or the searched logs can be exported as a file.
8	Log list	You can check the search results.

Search Audit Logs

- 1. Open the Audit log search menu page.
- 2. Select the base time at the moment when an event occurred.

W Monitoring 1 Audit log search	+	😩 user2 🍶 🏦 🌣	0 _ ¤×
Audit log search			0 11
Occurred (PC) 2021-12-01 000000 ~ 2021-12-01 154600 Audit log type Al Somet O	V Derice V Decide V Occumed (PC) Confirmed time Occumed (PC) 06:00:00 0	Υ Description	

- Occurred (PC): You can search for the time when an event occurred based on the PC time.
- Occurred (Device): You can search for the time when an event occurred based on the device time.
- **3.** Set Start time and End time for search. Click the arrow in the date drop-down list to select the date in the calendar that appears, and click the up/down arrows in the time scroll box to set the time. You may also click the cell to enter the values directly.



4. To search a specific log, click Audit log type and select a filter.



5. Click the **Search** button. The search results are displayed.

dit log search	*							0
	No. 1	7 Status 1	7 Type 7	Device 💎			Confirmed time 🔻	
21-12-01 00:00:00 ~	1	New	Start watching I	PNV-A8081R_C	admin(172.30.1	2021-12-01 15:	-	Start watching live video
21-12-01 15:40:00	2							
21-12-01 15:40:00	3							
	4							
	5							
	6							
	O 7							
	8							
	9							
	10							
	. 11							
	12							
	13							
	14	New	User login	SSM Server(172	admin(172.30.1	2021-12-01 15:		User login (Console)
	15	New	User logout	SSM Server(172	admin(172.30.1	2021-12-01 15:		User logout (Configuration)
	16	New	User logout	SSM Server(172	admin(172.30.1	2021-12-01 15:		User logout (Console)
	17	New	Connect camera	XNF-8010R(172				Connect camera
	18	New	Disconnect cam	XNF-8010R(172				Disconnect camera
	19	New	User login	SSM Server(172	admin(172.30.1	2021-12-01 14:		User login (Configuration)
	20	New	User login	SSM Server(172	admin(172.30.1	2021-12-01 14:		User login (Console)
	21	New	Connect camera	XND-6081FZ(17		2021-12-01 14:		Connect camera
	22	New	Failed to connect	XND-6081FZ(17		2021-12-01 14:		Failed to connect.(Camera)
	23	New	Failed to connect	XND-6081FZ(17		2021-12-01 14:		Failed to connect.(Camera)
	24	New	Connect device	ARN-16105/172		2021-12-01 14:		Connect device

Monitor POS Videos

POS system connected to NVR or DVR can be linked with SSM to configure the store management system. You can monitor the sales records received from POS and the video at the time of sales at the store in real time. In addition, you can search POS data using a specific text to check the recorded videos and sales records at the time of sales.



NOTE

- To link a POS system from SSM, you must register the storage device in **SSM Core Server** after connecting the POS device to NVR or DVR.
- Please check the model specifications to see if the POS device is compatible with the storage device.

Open the POS Menu Page

- 1. Run SSM Console Client.
- 2. Enter your ID and password in the Login dialog box, and click the Login button.
- 3. Click the [+] button at the top left of the program, and then select POS in the Add tab dialog box.



Learn about the POS Menu Screen Configuration

The **POS** menu screen is configured as follows:



No.	Screen Configuration	Detailed Description on Functions
0	Search options	You can input text to search from POS data.
0	Device list	You can see a list of cameras with linked storage device and POS device.
3	Video window	You can see the Live videos and POS search videos of the selected camera.
4	Timeline	You can check the sections with recorded videos and set the time interval to search.
6	Search results	You can see the POS search results.
6	POS data	You can see the POS sales records received in real time and sales records of the searched results.

Monitor POS Live Videos

You can monitor sales records and camera videos received from a POS device in real time.



NOTE

- Sales records display only the information received from the POS device connected to NVR.
- DVR can monitor real-time videos of the cameras linked with a POS device, but it cannot check sales records.
- 1. Open the **POS** menu page.
- 2. Double-click the desired camera from the **POS** tab. You may also select the desired camera in the **POS** tab and drag it on the tile of the video window.
- 3. Whenever a sales record occurs in a POS device linked with the camera, the sales record appears in the POS data.

Search POS Data

You can search POS data to see the recorded videos at the time of sales.

- 1. Open the **POS** menu page.
- 2. Double-click the desired camera from the **POS** tab. You may also select the desired camera in the **POS** tab and drag it on the tile of the video window.
- 3. Click the witch to the right of the timeline to switch to Playback mode.
- 4. Enter a keyword in the search window. You can choose one of following search options:
 - Match whole words: Only data that matches all characters, including whitespaces, are displayed as search results. If this option is not selected, then whitespace is recognized as "OR". (This returns all the results, even if only one of the words separated by whitespaces is satisfied.)

Example

Sales Record	Search Word	Match Whole Words	
Sales Record	Search word	Selected	Unselected
Banana 3,000 Apple 5,000	Cash 8,000	Searched	Searched
Total 8,000 Cash 8,000	Cash 5,000	Not searched	Searched (1 instance of "Cash" matches)

• Match case sensitivity: When you enter a keyword in English, the search is case-sensitive.



NOTE

Keywords can be up to 127 characters long.

- 5. Click the Search button.
- 6. You can see the search results in the search list to the right. Select the desired items in the search list.
 - Click the item to playback the video channels connected to the POS.
 - Clicking ► plays the video recorded at the moment when a POS event occurred.



NOTE

When the playing video is controlled (stopped, played, paused, or played in fast forward), the sales record at the time of recording appears in the **POS data**.

Monitor System with Dashboard

You can monitor the status of the SSM Core Server system with SSM Console Client or a web viewer.

Open the Dashboard Menu Page

- 1. Run SSM Console Client.
- 2. Enter your ID and password in the Login dialog box, and click the Login button.
- Click the [+] button at the top left of the program, and then select Dashboard in the Add tab dialog box.



NOTE

- You can monitor the dashboard remotely by typing the following address in your browser:
 - Address: http://serverIP:9999/webadmin/index.html
 - It is available in Chrome browser.
- The dashboard only supports the English language.

Learn about the Dashboard Screen Configuration

The dashboard screen is configured as follows:



Number	Screen configuration	Detailed description of function
0	Device quantity	 You can check the quantity of registered devices. Camera: The number of cameras registered with all servers and recorders within the domain and recorders SSM Server: The number of servers clustered Recorder: The number of recorders registered under the domain
0	Network traffic	 You can check the network traffic of the system. System in: The sum of incoming camera video traffic to each server System out: The sum of video traffic coming from each server to the client
3	Device status	 You can check the ratio of malfunctioning state to the total quantity of the registered devices. SSM Server Click this button to move to SSM Server page. Recorder Click this button to move to Recorder page.
4	Status history graph	 You can check errors from registered devices and network traffic status. When moused over the graph, the number of errors at that point in time and the network traffic status of up to last 7 days are displayed. You can use the mouse wheel over the timeline to zoom in or out on the time scale. ALL: Displays both the number of errors per device and the network traffic status. DEVICE: Displays the number of errors per device. (Camera/Server/Recorder) NETWORK TRAFFIC: Displays input/output traffic of the server.
5	List of logged-in users	You can check the IDs of logged-in users. When moused over, their IDs and IP addresses are displayed.

6		 The functions listed below can be used by clicking the button. Link URL : The URL of the current page can be copied to and checked on a web browser. Reports : The information of the current page (Home screen) can be captured and exported as a PDF file. Logout : You can log out when monitoring Dashboard on a web browser.
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NOTE

All data is updated every minute.

Checking the SSM Server page



Number	Screen configuration	Detailed description of function
0		Can move to the Home screen of Dashboard.
2	Server list	You can check the list of registered SSM servers and connection status. In the status bar of each server, the number of malfunctioning cameras out of all cameras registered with the server is displayed. When moused over, you can check the number based on the number of connected cameras. • Server that is not connected is displayed in red.
0	Server details	You can check the details of your server. Click the server you want from the server list.
4	Camera list	 Camera Clicking this button lets you check the details such as camera list and connection status. I Camera Clicking this button lets you check the details such as camera list and connection status. I Camera contect the sorting criteria of the list. The selected sorting criterion is displayed in orange. I Camera connection status I Secure connection status I Secure connection status I Secure connection status I Camera name can be filtered and displayed.

3	 The functions listed below can be used by clicking the button. Link URL : The URL of the current page can be copied to and checked on a web browser. Reports : The list including the latest information of all the SSM Server in a domain can be exported as a CSV file. With SSM Console Client : You can set the file location and name to save. With browser : You can download it in the default download folder of the user who logged in to Windows. Debug : The live logs of System Manager and Media Server can be exported as a file. With SSM Console Client : You can set the file location and name to save. With SSM Console Client : You can set the file location and name to save. With SSM Console Client : You can set the file location and name to save. With SSM Console Client : You can set the file location and name to save. With SSM Console Client : You can set the file location and name to save. With SSM Console Client : You can set the file location and name to save. With browser : You can download it in the default download folder of the user who logged in to Windows. Beout : You can log out when monitoring Dashboard on a web browser.
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Checking the Recorders page

W Montoring 1	Renkowert + 8 = xxen-sectsel 172.30.1.201 PRIL6410004 172.30.1.193 xxen-sectsel 172.30.1.201 2 Total 6 2 2	© where at 0 0 0 − 0 × Reland Q. Search 3
	PRIS 6410064 # skinon Part Carrery Dak 172.30.1.193 443 6 - Swape Carrery Carrery Bak and	No Data (086)
	୍କ ଶ୍ୱ ଖ୍ରୀ humba ୨୩ 6400-୦୦୦ - ୨୦୦ - ୨୦୦ - ୨୦୦ - ୨୦୦ - ୨୦୦ - ୨୦୦ - ୨୦୦ - ୦୦୦ - Valences ୨୩ 6400 ୨୦୦ 6400	<u>Q. Sourch</u> 5

Number	Screen configuration	Detailed description of function
0		Can move to the Home screen of Dashboard.
0	Recorder list	 You can check the list of registered recorders. When moved to the Recorders page for the first time, only the recorders under System Manager accessed by the dashboard are displayed. Any recorders not connected are displayed in red. SNMP connection failure is displayed in yellow,
3	Load	You can check all recorders within the domain.Search: Recorder name can be filtered and displayed.
4	Recorder details	You can check the details of a recorder. Select the recorder you want from the recorder list.
6	Camera list	 Camera Clicking this button lets you check the details such as camera list and connection status. You can check the sorting criteria of the list. The selected sorting criterion is displayed in orange. Camera connection status Camera connection status Dual recording action status Secure connection status You can sort the list by camera name. Search: Camera name can be filtered and displayed.

6		 The functions listed below can be used by clicking the button. Clink URL : The URL of the current page can be copied to and checked on a web browser. Reports : You can export the list including the latest information of all the recorders in a domain as a CSV file. With SSM Console Client : You can set the file location and name to save. With browser : You can download it in the default download folder of the user who logged in to Windows. Logout : You can log out when monitoring Dashboard on a web browser.
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Set Console Client

You can specify general settings, screen, and settings related to events on the Settings screen of the console client.

Open the Setup Page

- 1. Run SSM Console Client.
- 2. Enter your ID and password in the Login dialog box, and click the Login button.
- 3. Click the 🔯 button at the top right of the program.

W Monitoring 1 Search +	G use2 .: A 💓 🖲 _ [× د
Setup	×	
General Display Video Event		
Language	English v	
Date/Time	yyyy-MM-dd > hh:mm:ss >	
Startup option	Auto-start on Windows startup	
	View full screen 🔽 Load last settings	
Screen lock / Log out	Screen lock Dff Off	
Streaming protocol	🖉 Multicast 🔹 Unicast	
System Controller	Off Check connection Disconnected	
	Apply Cancel	
	Appy Cancel	

Set General

You can set the general usage environment of **SSM Console Client**, such as Language, Date/Time, Start options, and Video protocol type.

- 1. Open the **Setup** menu page.
- 2. Click the General tab at the top left. You can set the following items.

	Setup General Display Video Event	×
0	Language	English -
0	Date/Time	yyyy-MM-dd v hh::mm:ss v
3	Startup option	Auto-start on Windows startup
		View full screen 🔽 Load last settings
4	Screen lock / Log out	Screen lock C Log out Off
6	Streaming protocol	Multicast • Unicast
6	System Controller	Off Check connection Disconnected
		Apply Cancel

No.	Setup Items	Description
0	Language	You can set the language of the system.
0	Date/Time	 You can set the date and time format displayed in the OSD. Date format: yyyy (Year), MM (Month), dd (Day) Time format: hh (Hour), mm (Minute), ss (Second)
3	Startup option	 You can set the screen display method when you start the program. Auto-start on Windows startup: You can run the program automatically when you start Windows. View full screen: When you start the program, you can view the SSM Console Client in full screen. Load last settings: You can display the last used menu on the start screen.

No.	Setup Items	Description
4	Screen lock/ Log out	 Screen lock: For security purposes, you can block the use of the program when there is no keyboard or mouse activity for a specified period of time. Log out: For security purposes, you can log out of SSM Console Client when there is no keyboard or mouse activity for a specified period of time. Time settings: You can click the drop-down list to set the base time to run screen lock or log out. You can set one of the following options: Off: You don't use screen lock or log out functions. 5 min/10 min/15 min: After a set period of time, the screen lock or log out is activated.
6	Streaming Protocol	You can choose between multicast or unicast when transmitting videos from the SSM Core Server to the SSM Console Client. To use multicast, set multicast to SSM Server at the following path. Configuration > Device > Registration > Camera information > Profile
6	System Controller	 You can set the controller for SSM Console Client. Supporting controllers [Techwin] SPC-2000, SPC-7000

Set Display

You can set the OSD information to be displayed on the camera tab and video tile.

- 1. Open the **Setup** menu page.
- 2. Click the **Display** tab at the top left. You can set the following items.

	Setup General Display Video Event	×
0	Show tree	Use device name
0	OSD text	Date/Time Information icon 🗹 Camera name Show IP
		Font size Middle Size 9 OSD position Top left •
3	Show OSD	Show IVA (Intelligent Video Analytics) rules Enable mini map Location Top right Size Small
		Masking Scale(WxH) 1 X 1
		Apply Cancel

No.	Setup Items	Description	
0	Show tree	 Use device name: Displays the name set by the device in the Device list on the Camera tab and in the video tile (e.g. Camera 01, Alarm 01,). If you deselect it, the name registered by configuration manager is displayed. Device IP address: Displays the IP information of the device in the Device list on the Camera tab. 	
No.	Setup Items	Description	
-----	-------------	---	--
0	OSD text	 You can display the following items on the video tile. Date/Time: You can display date and time on the video tile. Cameras registered in SSM Core Server display the date and time of SSM Core Server, and cameras registered in DVR or NVR display the date and time DVR or NVR devices. Information icon: You can display items such as recording status, PTZ support as icons below the video tile. Camera name: You can display the camera name at the top left of the video tile. Show IP: Device IP information can be displayed on the video tiles. Metadata: You can display the IVA detection result received from the camera as a green square on the video tile. Metadata refers to the IVA detection result data. Font size: Click the dropdown menu to configure the font size of the OS information. You can select Custom to set to a desired size. OSD position: Click the dropdown menu to configure the position of the OSD information. 	
6	Show OSD	 Show IVA (Intelligent Video Analytics) rules: You can display the IVA rules set by the camera on the video. Enable mini map: When you double-click the map link icon on the map layout, you can display a mini map over the current map rather than move to that map layout. You can set the location and the size of the mini map by clicking the drop-down menu. Live Video Masking (Beta): You can enable masking (Blur/Mosaic/Fisheye) to protect the privacy of people who show up in videos in order to make them unidentifiable. Masking Scale(WxH): You can set the size of image masking. 	

Set Video

You can set monitoring, quality and protocol type of the video played, capture, recording path, etc.

- 1. Open the **Setup** menu page.
- 2. Click the Video tab at the top left. You can specify the following event setup items.

	Setup	×
	General Display Video Event	
0	Video display optimization	• Auto 💿 Manual
		Only I-frames are played when decoding or rendering loads occur.
		132 v Play only I-frames upon abnormal split
		640 x 360 or higher supported with high resolution Preview
0	Video quality	V Anti-aliasing
		✓ Enable streaming buffer
		✓ Aspect ratio
		Block video(s) streamed from other camera(s) when viewing a video from a camera in full screen mode
8	Enable decoder	Enable NVIDIA CUDA Decoder
		Enable Intel Quick Sync Decoder
4	Capture	Path C:\Users\Public\Documents\Wisenet\SSM\Capture Open details
6	Record	Path C:\Users\Public\Documents\Wisenet\SSM\Record Open details
		Recording time 10 min -
		Format O AVI • SEC E Enable the login password as a password for Enable digital signature
		Apply Cancel

No.	Setup Items	Description	
0	Video display optimization	 Auto : You can automatically display images in low or high resolution based on the monitor resolution, image tile size, or system load. Manual : You can set the following options for monitoring and playback video quality. Only I-frames are played when decoding or rendering loads occur: You can set to play only I-frames if degraded decoding and rendering performance occur due to system overload. You can set a split screen to play only I-frame by clicking the dropdown menu. You can set to output a high resolution profile video when the size of the video tile is larger than the set value. Preview button enables you to check the size of minimum video tile that can be viewed in a high resolution profile. 	

No.	Setup Items	Description	
0	Video quality	 Anti-aliasing: You can improve the aliasing phenomenon where pixels look jagged when playing a video in SSM Console Client. Using anti-aliasing will improve the quality of the video, but it can cause streaming to stop. Enable streaming buffer: You can play video evenly when a video delay occurs due to network and other usage environment issues. Streaming buffer allows for more uniform video playback, but the streaming can be delayed. Aspect ratio: You can zoom in or out on the video screen to view videos by the size of the tiles while maintaining the aspect ratio of the camera video resolution. Block video(s) streamed from other camera(s) when viewing a video from a camera in full screen mode: This function is intended to prevent network overload. You can pause receiving the camera video of the remaining monitoring channels when viewing a specific channel in full screen during multi-channel monitoring. Selecting this function may prevent network overload, but switching from 1-channel video in full-screen to multi-channel monitoring screen prolong the time it takes to receive the whole video. 	
0	Enable decoder	 Enable NVIDIA CUDA Decoder: When a hardware decoder (NVIDIA's CUDA Decoder) is separately installed in the PC, the corresponding decoder can be used as a video decoder for SSM. Enable Intel Quick Sync Decoder: When a hardware decoder (Intel's Quick Sync Decoder) is separately installed on the PC, the corresponding decoder can be used as a video decoder for SSM. 	
4	Capture	 You can Capture the video of the tile and set a path to save as an image file. Open details: When you click the Capture button, the Capture dialog box appears. You can set the storage path and the information to be displayed on the image. 	

No.	Setup Items	Description	
6	Record	 When you store the video of a tile in your local PC, you can set the file path to save to, time, format, etc. Path: You can set the path to record on your PC. Open details: If you click the Local recording button, a dialog box appears to set the recording path. Recording time: You can set the recording time to record on your PC. Setup time: 1 to 60 minutes (It can be set in 1 minute intervals.) Format: You can set the local recording videos using the AVI extension. AVI files can be played in normal video playback programs used on the PC. SEC: You can save the local recording videos using the SEC extension. When you record as a SEC file, you can play the exported file in Backup viewer, which is a video playback program for SEC files only. Enable the login password as a password for recording: You can set to enable playback only if the login password is entered when you play the video. You can make additional settings when selecting the SEC file format. Enable digital signature: You can record videos by applying a digital signature to verify video forgery or falsification. You can make additional settings when selecting the SEC file format. 	

Set Events

You can set the usage environment for the event that occurred.

- 1. Open the **Setup** menu page.
- 2. Click the **Event** tab at the top left. You can set the following items.

	Setup		×
	General Display Video Event		
0	Show tile upon event occurrence	✓ Enable 10 s	
0	Playback time for event	Event pre playback time 30 s	
		Event post playback time 30 s	
3	Event spot	Display Target Event Setup	
		Display Time Continuously	
4	Instant viewer	Open instant viewer when event has occurred.	
		Maximum number of instant viewers	1
		Pop-up duration	Continuously
		New event discard time	Continuously -
		Pop-up location	Monitor 1
6	Map layout	Link map to event	
		Show map with active event	
		Apply	ancel
		трру	

No.	Setup Items	Description	
0	Show tile upon event occurrence	You can set whether or not to play the video of an event when the event occurs and its play duration.	
0	Playback time for event	e for When playing an event video in the Instant viewer or Event menu, you can set the event playback time to include a set number of seconds before or after the event occurrence.	
8	Event spot	nt spot When using the event spot function, you can configure the event details a display time to be displayed.	

No.	Setup Items	Description	
4	 You can set whether to use the Instant viewer when an event Maximum number of instant viewers: You can set the max of the Instant viewers to display. You can set up to 3 Instant Pop-up duration: You can set the display time for how lor viewer is displayed when an event occurs. After the set tim viewer closes automatically. New event discard time: When the same event occurs fro camera within the time set for the Instant viewer displayed the Instant viewer so that it does not display new events. Pop-up location: You can set a monitor to display the Instant configuring the monitoring screen using multiple monitor 		
5	Map layout	 When monitoring with a map layout in Monitoring menu, you can set actions when an event occurs. Link map to event: When an event occurs on the map link icon, you can set it to switch to that map layout. Show map with active event: You can display the map link icon where the event occurred in the center of the screen. 	

System Requirements

SSM Core Server

	Minimum Specifications	Recommended Specifications
CPU	Intel Core i5 or more (i5-4670@3.40GHz)	Intel Core i7 or more (i7-4770@3.40GHz)
		Xeon E3-1275 v5 (8M Cache 3.6 GHz)
RAM	8 GB or more	16 GB or more
OS	Windows 8.1/10 (Pro, Enterprise) Windows 10 IOT Enterprise Windows 11 Pro Windows Server 2008 SP2/2008 R2 SP1 (Stand Windows Server 2012/2012 R2 (Standard) Windows Server 2016 (Standard) Windows Server 2019 (Standard) Windows Server 2019 (Essential) * Can be installed on 64-bit OS only.	ard)
HDD	 Operating System HDD SSD recommended 20 GB or more free disk space is required after OS and SSM Core installation Camera Video Recording HDD Requires separate HDD for recording (Requires a minimum of 200 GB for logging) HDD: SATA3 7200 rpm (64 MB Cache) NIC Bandwidth 1 Gbps or more 	 Operating System HDD SSD recommended 20 GB or more free disk space is required after OS and SSM Core installation Camera Video Recording HDD Requires separate HDD for recording (Requires a minimum of 200 GB for logging) HDD: 4 SATA3 7200 rpm (64 MB Cache) or more NIC Bandwidth 1 Gbps or more RAID, iSCSI support: RAID5, HW RAID Controller (AF support)



NOTE

SSM 2.10.8 or later requires a separate HDD, other than the C drive, for event recording and searches.

SSM Console Client

	Minimum Specifications	Recommended Specifications
СРՍ	Intel Core i5 or above (i5-4670@3.40GHz)	Intel Core i7 or above (i7-4770@3.40GHz) Xeon E3-1275 v5 (8M Cache 3.6 GHz)
VGA	Geforce GTX 740 (1 GB RAM) 6th gen. Intel Processor Graphics Supports DirectX 11	 When using CUDA H/W Decoder Geforce GTX960 (RAM 2GB) or more GeForce GTX1050 (RAM 2GB) or more DirectX 11 When using Intel Quick Sync H/W HD Graphics P530 or above
RAM	8 GB or more 16 GB or more	
OS	Windows 8.1/10 (Pro, Enterprise) Windows 10 IOT Enterprise Windows 11 Pro * Can be installed on 64-bit OS only.	
HDD	20 GB or more free disk space is required after OS and SSM Console Client installation	

Product Specifications

	System	
Max Monitoring Channels	Max 10,000 channels/domain Max 3,000 channels/server * Camera registration: Max 328 channels Camera recording: Max 128 channels	In case of using camera/NVR/DVR
Max Storage Channels	Max 3,584 channels/domain Max 128 channels/server Max 520 Mbps Supports dual recording (High/Low) * The maximum recording performance varies depending on the specs of HDD, H/W RAID, and iSCSI.	In case of using server storage
Software Structure	Server/Client	Multi-server clustering, max 28 servers
Client	Console client, mobile viewer	Supports up to 37 simultaneous connections per server
Supported Devices	Network camera/encoder/decoder, DVR/NVR, controller	Supports Wisenet products + ONVIF Profile S Onvif® (S ONVIF® conformant (www.onvif.org)

	Basic Compo	45-day trial
	Server clustering	Server data sharing, failure management
	System dashboard	Real-time system health monitoring
	User management	Device access permission, function access authorization
SSM Core Server	Federation	Multi-domain federation, up to 10 domains, up to 4 depths, up to 10,000 channels
	Central device setup	Automatic/Manual registration of devices and additional servers
	Event setup	4-step importance setting, color management by event
	Event action	Event users setup and trigger activities
	Layouts and patterns	Custom layouts and tile patterns
	Tab-based windows	Monitoring, Search, Advanced search, ANPR, POS Dashboard, Configuration, Setup
	Output channels	Max 132 channels
	Decoding	Supports hardware accelerator (CUDA, Intel Quick Sync)
SSM Console	Playback	Multi-channel playback, bookmark
Client	Real-time events	Filters by situation, type, and importance
	Search	Event search, Person search, Face search, Face recognition search, Vehicle search, LPR search, Audit log search
	Advanced search	Thumbnail search, Smart search
	POS text search	Searches receipt list, keywords
Supported Languages	Korean, English, Chinese, Croatian, Czech, Danish, Dutch, Finnish, French, German, Greek, Hungarian, Italian, Japanese, Norwegian, Polish, Portuguese, Romanian, Russian, Serbian, Spanish, Taiwanese, Thai, Turkish, Arabic, Ukrainian, Vietnamese	

Service Ports

Please see the list of ports used by Wisenet SSM.

Name	Port	Protocol
	9991, 9999, 61616, 9876	SSL(9991)
System Manager		TCP for Web Service(9999)
		Active MQ(61616)
		PostgreSQL(9876)
	4510-4517	TCP(4510, 4511)
Madia Comron		SSL(4512, 4513)
Media Server		HTTP(4514)
		RTSP(4515, 4516, 4517)

Supported Devices

Please see the list of supported products.

DVR

4-channel

HRX-435, HRX-434, HRX-421FN/TE, HRX-420, HRX-421, HRD-440, HRD-442, SRD-493, SRD-494, SRD-443, SRD-473D, SRD-476D, SRD-482, SRD-445, SRD-470, SRD-440

8-channel

HRX-835, HRX-821/TE, HRX-820, HRX-821, HRD-842, HRD-841, SRD-893, SRD-894, SRD-840, SRD-482, SRD-852D, SRD-870DC, SRD-873D, SRD-876D, SRD-880D

16-channel

HRX-1632, HRX-1621/TE, HRX-1620, HRX-1621, HRD-1642, HRD-1641, SRD-1685, SRD-1694(U), SRD-1684, SRD-1630(D), SRD-1640, SRD-1642(D), SRD-1653D, SRD-1654D, SRD-1656D, SRD-1673D, SRD-1676D, SRD-1680D, SRD-1673DU

NVR

PRN-6410DB4, PRN-6410B4, PRN-6405DB4, PRN-6405B4, PRN-6400DB4, PRN-6400B4, PRN-3210B4, PRN-3205B4, PRN-3200B4, PRN-3205B2, PRN-3200B2, PRN-1605B2, PRN-1600B2, PRN-4011, XRN-6410DB4, XRN-6410B4, XRN-6410RB2, XRN-6410B2, XRN-3210B4, XRN-3210RB2, XRN-3210B4, XRN-3210B4, XRN-3210B4, XRN-3210B4, XRN-1620B2, XRN-3010A, XRN-3010, XRN-2011A, XRN-2011, XRN-2010A, XRN-2010, XRN-1620SB1, XRN-1620B2, XRN-1610SA, XRN-1610A, XRN-1610(S), XRN-820S, XRN-810S, XRN-420S, XRN-410S, QRN-1620S, QRN-820S, QRN-810, QRN-430S, QRN-420S, QRN-410S, QRN-410, LRN-1610S, LRN-810S, LRN-410S, KRN-3200, KRN-1600, SRN-4000, SRN-1000, SRN-1670D, SRN-470D, SRN-1673S/873S/473S, SRN-472S, VPM-4800/4400/5400/6400

NETWORK CAMERA

BOX

KNB-2000, KNB-5000, PNB-A6001, PNB-A6002, PNB-A7002, PNB-A8002, PNB-A9001, PNB-A9002, QNB-6000, QNB-6002, QNB-7010RH, QNB-7080RH, QNB-8002, SNB-1001, SNB-3002, SNB-5000, SNB-5001, SNB-5003, SNB-5004, SNB-6003, SNB-6004(F), SNB-6005, SNB-6010(B), SNB-6011B, SNB-7001, SNB-7004, SNB-8000, SNB-9000, SNZ-5200, SNZ-6320, TNB-9000, XNB-6000, XNB-6001, XNB-6003, XNB-6005, XNB-8000, XNB-8002, XNB-8003, XNB-9002, XNB-9003, XNZ-6320

DOME

KND-2020R, KND-2080R, KND-4010R, KND-4080R, KND-5020R, KND-5080R, PND-A6081RF/RV, PND-A6082RF/RV, PND-A7082RF/RV, PND-A8082RF/RV, PND-9080R, PND-A9081RF/RV, PND-A9082RF/RV, PNM-9020V, PNV-9080R, PNV-A9081R, QND-6010R, QND-6020R, QND-6030R, QND-6070R, QND-7010R, QND-7012R, QND-7020R, QND-7022R, QND-7032R, QND-7080R, QND-7082R, QNE-6080RV, QNE-6080RVW, QNE-7080RV, QNE-7080RVW, QNV-6010R, QNV-6070R, QNV-7010R, QNV-7012R, QNV-7020R, QNV-7022R, QNV-7030R, QNV-7032R, QNV-7080R, QNV-7082R, SND-6012, SND-L6013R, SND-L6083R, SND-7084R, SNV-L6013R, SNV-L6014RM, SNV-6084R, SNV-6085R, SNV-7084R, SNV-8081R, SNV-8030R, TNV-8010C, XND-6010, XND-6020R, XND-6080RG, XND-6080RV, XND-6080(R)(V), XND-K6080, XND-6081RE, XND-6081RVE, XND-6083RV, XND-C6083RV, XND-6085, XND-6085V, XND-C7083RV, XND-8020R, XND-8030R, XND-8040R, XND-8080R, XND-8081RE, XND-8081RVE, XND-8082RF, XND-8082RV, XND-8083RV, XND-C8083RV, XND-8093RV, XND-9082RF, XND-9082RV, XND-9083RV, XND-C9083RV, XNV-6010, XNV-6011, XNV-6012, XNV-6012M, XNV-6013M, XNV-6020R, XNV-6022R, XNV-6022RM, XNV-6080(R), XNV-6083R, XNV-C6083R, XNV-6085, XNV-6120, XNV-6120R, XNV-6123R, XNV-C7083R, XNV-8020R, XNV-8030R, XNV-8040R, XNV-8080RS, XNV-8080(R)(RV), XNV-8082R, XNV-8083R, XNV-C8083R, XNV-8093R, XNV-9082R, XNV-9083R, XNV-C9083R

FISHEYE

TNF-9010, XNF-9010RS, XNF-9010RV, XNF-9010RVM, QNF-9010, XNF-8010, XNF-8010RV, XNF-8010R, PNF-9010R(RV)(RVM), SNF-8010(VM), SNF-7010

MULTI-SENSOR

PNM-9322VQP, PNM-9320VQP, PNM-9081VQ, PNM-9080VQ, PNM-9030V, PNM-9022V, PNM-9020V, PNM-9002VQ, PNM-9000VQ, PNM-9000QB, PNM-8082VT, PNM-7002VD, PNM-7000VD

BULLET

KNO-2080R, KNO-2010R, KNO-2120R, KNO-4010R, KNO-4080R, KNO-5020R, KNO-5080R, PNO-A6081R, PNO-A6082R, PNO-A7082R, PNO-A8082R, PNO-9080R, PNO-A9081R, PNO-A9082R, PNV-A6081R, PNV-A6082R, PNV-A7082R, PNV-A8082R, PNV-A9082R, QNO-6010R, QNO-6020R, QNO-6030R, QNO-6070R, QNO-7010R, QNO-7012R, QNO-7020R, QNO-7022R, QNO-7030R, QNO-7032R, QNO-7080R, QNO-7082R, SNO-5080R, SNO-L5083R, SNO-5084R, SNO-6011R, SNO-L6013R, SNO-L6083R, SNO-6084R, SNO-6085R, SNO-7084R, SNO-8081R, TNO-6320E, TNO-6322ER, TNU-6320E, XNO-6010R, XNO-6020R, XNO-L6020R, XNO-6080RA, XNO-6080RA, XNO-6080RG, XNO-L6080R, XNO-6083R, XNO-6083R, XNO-6085R, XNO-6085RA, XNO-6085RG, XNO-L6085R, XNO-L6085RA, XNO-6090RH, XNO-6095RH, XNO-6120R, XNO-6120RG, XNO-L6120R, XNO-6123R, XNO-6320RHP, XNO-C7083R, XNO-8020R, XNO-8030R, XNO-C8083R, XNO-8040R, XNO-8080R, XNO-8082R, XNO-8083R, XNO-9082R, XNO-9083R, XNO-C9083R

PTZ

XNP-9300RW, XNP-9300R, XNP-9300, XNP-9250R, XNP-9250, XNP-8300RW, XNP-8300R, XNP-8300R, XNP-8300, XNP-8250R, XNP-8250, XNP-6400RW, XNP-6400R, XNP-6400, XNP-6321H, XNP-6321, XNP-6320HG, XNP-6370RHA, XNP-6320H, XNP-6320, XNP-6320HS, XNP-6370H, XNP-6040H, XNP-6120H, XNP-6370RH, XNZ-6320, XNP-6550RH, XNP-6371RH, XNP-6371RHG, XNP-6370RH, PNP-9200RH, QNP-6320(H), QNP-6250(H), SNP-6321(H), SNP-L6233(H)(RH), SNP-L5233(H), SNP-6320(H)(RH), SNP-6230(RH), SNP-5430(H), SNP-3302(H), SNP-3371(H)(TH), SNP-5300(H), SNP-5321(H), SNP-5430(H), SNP-6201(H), SNP-3120(VH)

POSITIONING

TNU-4051T, TNU-6320, TNU-6320E, TNU-6321

THERMAL

TNM-3620TDY, TNO-4051T, TNO-4041TR, TNO-4040TR, TNO-4030TR, TNO-4030T, TNO-3050T, TNO-3040T, TNB-1080T, TNB-1050T, TNB-1040T, TNO-1030T

ENCODER

SPE-400/100/101, SPE-1600R, SPE-1610/410, SPE-1620

DECODER

SPD-1660R

SENSOR

Advantech's Extended I/O
 ADAM-6050: Sensor x12, AlarmOut x6

ADAM-6060: Sensor x6, AlarmOut x6

ADAM-6066: Sensor x6, AlarmOut x6

MOXA's Extended I/O

NA-4010 (Sensor: M-1601 (16-channel), AlarmOut: M-2601 (16-channel))

ONVIF

ONVIF compatible camera Camera supporting ONVIF 1.02 or later (Compatible with Prole-S) Video codec: MJPEG, MPEG4, H.264, H.265 Audio codec: G.711(pcm ulaw), G726, AAC

INTERCOM

TID-600R

ANPR

TNC-6070RLP, TNC-9070RLP, TNO-6081RLP, TNO-7180R, TNO-7180RLP

Use System Controller

You can check the connection settings and connection status in SSM Console Client > System Controller.

SPC-2000

The SPC-2000 joystick is operated as follows:

- SPC-2000 must be connected to the PC before the console is launched in order to be recognized.
- SPC-2000 can run in PTZ or Screen mode.
- In Screen mode, the layouts assigned to the console are numbered 1~8 in the order of assignment.



Name		Function	
1	Up/Down/Left/Right	 In PTZ mode, the camera can be panned, tilted, and controlled in 8 directions. In Screen mode, the top/bottom/left/right tile can be selected. 	
	Rotation	In PTZ mode, the screen is zoomed in when it is rotated clockwise and zoomed out when it is rotated counterclockwise.	
2	1~8	 In PTZ mode, presets number 1~8 are run. In Screen mode, the layout corresponding to the button number is run. 	
3	9~10	PTZ mode and Screen mode are switched.	
4	11, 12	 In PTZ mode, Focus Near/Far operation is run. In Screen mode, multiple monitors can be selected and changed. 	



NOTE

To set the correct image, the axis calibration is needed.

Select **••** > **Set** > **Control Panel** > **Game Controller** > **Property** > **Set** via the PC, click the **Compensation** button to run the **System Compensation Wizard** and then follow the guide on the screen to complete axis compensation.

SPC-7000

The operating specifications with SPC-7000 joystick connected are as follows.

• SPC-7000 displays each operating status of the system controller on the LCD monitor, and allows the user to easily select a menu with a touch screen, or using a joystick.



• It operates in the following 5 modes; PTZ/Screen/Mouse/Console/VM

	Name		Function
1	Joystick	Up/Down/Left/Right	 In PTZ mode, you can control the Pan and Tilt motion. In Screen mode, you can change the Up/Down/Left/ Right tile selection. In Mouse mode, you can move the mouse cursor.
		Rotation	In PTZ mode, the screen zooms in when turning in the WIDE direction, and zooms out when turning in the TELE direction.

Name		me	Function
2	PTZ control	[FOCUS N/F] +	Runs the Focus Near/Far motion. [FOCUS N/F] + : Focus Near [FOCUS N/F] + : Focus Near
		[IRIS C/O] + → [IRIS C/O] + ←	Runs the IRIS Open/Close operation. [IRIS C/O] + → : IRIS Open [IRIS C/O] + ← : IRIS Close
		[PRESET]	When you click a number + [PRESET] button, the preset corresponding to each button number is activated.
		[GROUP]	When you click a number + [GROUP] button, Group/ Scan corresponding to each button number is activated.
		[TRACE]	When you click a number + [TRACE] button, Pattern/ Trace corresponding to each button number is activated.
		[ZOOM] + ->	Runs the zoom in motion.
		[ZOOM] + 🖛	Runs the zoom out motion.
3	Mouse control	[T. LOCK(L)]/ [TRACK(R)]	Uses the left/right button of the mouse in mouse mode.
4	Screen control	[MON.(CON.)]	You can change the multi monitor selection by clicking a number + [MON.(CON.)] button in the screen mode (previous/next according to the monitor number).
		[LAYOUT(SEQ.)]	When you click a number + [LAYOUT(SEQ.)] button, the layout corresponding to each button number is activated.
		[CAM]	When you click a number + [CAM] button, the camera corresponding to each button number is activated.
		[ENTER]	Clicking once will display a single screen on the live viewer. Clicking once again will return to the original screen.
			When you click a number + [ENTER] button in the live viewer, the screen is split into the number input.
		LCD SnapShot Button	Captures the video of the current tile.
		LCD UI Alarm Off Button	Initializes the event.
		Number + [TILE(VM)]	Moves to the tile corresponding to the number.

Name		me	Function
5	Mode Change	[PTZ(MENU)]	Changes the PTZ mode. Click the [PTZ(MENU)] button while in PTZ mode and the screen mode will be changed.
		[SHIFT] + [MENU(MOUSE)]	Changes the mouse mode. Click the [SHIFT] + [MENU(MOUSE)] buttons while in mouse mode and the screen mode will be switched.
		[SHIFT] + [MON.(CON.)]	Changes the console mode.
		[SHIFT] + [TILE(VM)]	Runs the VMD control.
6	Play screen control	[SEARCH]	Outputs the video of the current tile through live/ search.
			The video will be stopped.
			Plays and pauses the video.
		•	Starts/Ends manual recording of the video.
		Shuttle wheel	Fast plays in the forward direction when the wheel is turned clockwise, or fast plays in the reverse direction when the wheel is turned counter-clockwise.
		Jog wheel	Performs frame search.
7	0~9		Button to input a number.
	[ESC(SETUP)]		Initializes the input number.
	[FAVORI.(MACRO)]		Performs the motion as a key value designated to SPC-7000 is automatically generated. Example) When the [FAVORI.(MACRO)] key is pressed, the same motion that is activated when the user presses a number + [MONITOR] + number + [TILE(VM)] is carried out.

